NUMERICAL/CHRONOLOGICAL/ AUTHOR INDEX 1979-1985/86

An Index of Publications of the American Astronautical Society

Horace Jacobs Robert H. Jacobs



ADVANCES IN THE ASTRONAUTICAL SCIENCES SCIENCE AND TECHNOLOGY SERIES







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NUMERICAL/CHRONOLOGICAL/ AUTHOR INDEX 1979 - 1985/86

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NUMERICAL/CHRONOLOGICAL/ AUTHOR INDEX 1979-1985/86

An Index of Publications of the American Astronautical Society

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ADVANCES IN THE ASTRONAUTICAL SCIENCES SCIENCE AND TECHNOLOGY SERIES

and other AAS publications

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FOREWORD

This index volume presents a numerical/chronological index and an author index of all available articles and papers published by, for, or in conjunction with the American Astronautical Society from 1979 through 1985 to mid-1986. It is a companion volume for Numerical/Chronological/Author Index 1954-1978 published in 1979.

The Numerical/Chronological Index consists of three sections:

- 1. An index by AAS number in sequential order covering all papers that have appeared in proceedings volumes or their supplements. Included in this index are some International Academy of Astronautics papers, by IAA number or by AAS number assigned for identification purposes. IAA papers appear at the end of the AAS papers for a given year. The papers are listed in numerical order under the volume or volumes in which they were published. In each case, the conference at which the papers were presented is identified. Each number is followed by the title of the papers and the author(s). This is essentially a <u>Citation Index</u> in chronological/numerical order.
- 2. A chronological index of the contents of <u>The Journal of the Astro-nautical Sciences</u> (1979 to mid-1986) by volume and issue, with titles, authors, and pages cited.

The <u>Author Index</u> consists of an alphabetical listing of all authors whose papers were published by the American Astronautical Society from 1979 to mid-1986. In each case, the author's name and initials only are given. Names are followed by paper number and/or Journal volume and issue number and pages. It is necessary then to refer to the <u>Numerical/Chronological Index</u> for the complete citation.

Since the <u>Numerical/Chronological Index</u> has been prepared annually some minor variations in abbreviations and format may occur.

The following appendices appear in this volume:

Appendix I.....Conferences sponsored or co-sponsored by the American Astronautical Society (1979-1986)

Appendix II.....IAA Symposia for which the AAS publishes proceedings

Appendix III....Publications of the American Astronautical Society

Appendix IV.....Books published for the American Astronautical Society
(1979-1986)

A Subject Index will appear as a companion volume.

We consider this volume to be a most valuable reference tool in the field of astronautics and related disciplines in that, along with its earlier companion volume, it includes almost every available technical paper published by or for the American Astronautical Society in the first thirty years of the Space Age.

The Editors

INDEX COVERAGE

This index covers the period 1979 through 1985 to mid-1986. The Earlier volume covers the period 1954 through 1978. This volume and its Earlier companion volume include all available articles and papers that have appeared in the following publications of the American Astronautical Society:

THE JOURNAL OF THE ASTRONAUTICAL SCIENCES 1954-mid-1986

ASTRONAUTICAL SCIENCES REVIEW 1959-1962

ADVANCES IN THE ASTRONAUTICAL SCIENCES 1957-August 1986 (Volumes 1-61)

SCIENCE AND TECHNOLOGY 1964-August 1986 (Volumes 1-64)

AAS HISTORY SERIES 1977-1986 (Volumes 1-7)

AAS MICROFICHE SERIES 1968-1986 (Volumes 1-53)

SPECIAL VOLUMES PUBLISHED FOR OR IN CONJUNCTION WITH THE AAS

IT IS A COMPLETE INDEX OF ALL AVAILABLE ARTICLES AND PAPERS PUBLISHED BY OR FOR THE AMERICAN ASTRONAUTICAL SOCIETY.

ALMOST ALL CITATIONS CORRESPOND TO MATERIAL STILL AVAILABLE.

A SUBJECT INDEX WILL APPEAR AS A COMPANION VOLUME.

GLOSSARY FOR NUMERICAL/CHRONOLOGICAL/AUTHOR INDEX 1954-1978 AND 1979-85/86

AAAS American Association for the Advancement of Science

AAS American Astronautical Society

AAS His AAS History Series

Adv Advances in the Astronautical Sciences

AIAA American Institute for Aeronautics and Astronautics

ASR Astronautical Sciences Review

Bonn Proc. Bonn Proceedings (Utilization of Space Shuttle

and Spacelab, 1976)

DGLR Deutsche Gesellschaft für Luft- und Raumfahrt

His AAS History Series

IAA International Academy of Astronautics

IAF International Astronautical Federation

JAS The Journal of the Astronautical Sciences Astronautics

The Journal of Astronautics

JBIS Journal of the British Interplanetary Society

Mic AAS Microfiche Series

Micro AAS Microfiche Series

Sp v Special AAS volume

S&T Science and Technology

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NUMERICAL/CHRONOLOGICAL INDEX OF AAS TECHNICAL PAPERS 1979 - 1985 (1986 Partial)

The following pages provide a Numerical/Chronological Index of AAS Technical papers published from 1979 to mid 1986. They are organized by the technical meeting at which the papers were presented. Papers are identified by AAS + year + number. Nearly all the papers indexed appear in proceedings volumes, all of which are available either in hard copy or microfiche from the publishers for the American Astronautical Society, Univelt, Inc., P.O. Box 28130, San Diego, California 92128.

The earlier companion volume, <u>Numerical/Chronological/Author Index</u> 1954-1978, covers all AAS papers for that period.

In addition to AAS papers, a number of papers presented at anuual meetings of the International Astronautical Federation/International Academy of Astronautics but published by the AAS are listed with an IAF or IAA prefix for identification purposes. Likewise some papers published at a meeting of the Deutsche Gesellschaft für Luft- und Raumfahrt for which the AAS was a cosponsor are listed with a DGLR prefix. These special citations follow the AAS citations for the year in which the papers were presented.

Each citation includes the paper number, (AAS, IAF, IAA, or DGLR), the full title and author(s). The heading under which the papers are listed identifies the volume(s) in which they appear and the technical event at which they were presented.

Nearly all papers or proceedings volumes are available either in hard copy or on microfiche from Univelt, Inc., P.O. Box 28130, San Diego, California, 92128 -- publishers for the American Astronautical Society. Out-of-print books are published in microfiche form.

AAS TECHNICAL PAPERS Omitted in 1954 - 1978 Volume 1976 - 1978



VOLT	JME 42	SCIENCE AND TECHNOLOGY, THE END OF AN ERA IN SPACE EXPLORATION, From International Rivalry to International Cooperation, by J.C.D. Blaine, 1976, 216p. (An AAS monograph, not the product of an AAS conference)
*AAS	76-188	Pioneering Stages of Modern Rocketry
AAS	76-189	Spectacular Space Flights by the Soviet Union, 1950's-1960's
AAS	76-190	Soviet Space Missions of the Early 1970's
AAS	76-191	Millions of Pounds of Thrust
AAS	76-192	The Probing of the Moon, Venus, and Mars by Unmanned Spacecraft of the United States
AAS	76-193	Unmanned Planet-Probing Flights of the United States to Jupiter-Saturn and Venus-Mercury
AAS	76-194	Manned Space Flights of the Mercury and Gemini Missions
AAS	76-195	Man's First Landing on the Moon
AAS	76-196	The Initial On-the-Surface Lunar Explorations of the United States (Apollo Missions 12, 13, and 14)
AAS	76-197	Motorized On-the-Surface Lunar Exploration Activities of the United States (Apollo Missions 15, 16, and 17)
AAS	76-198	Early Speculations Relating to Earth-Orbiting Satellites and Space Station Efforts of the Soviet Union
AAS	76-199	The Skylab Missions and the Space Shuttle Program of the United States

AAS 76-200

The Era of International Cooperation in Space Exploration

^{*} AAS numbers have been assigned to chapters for identification purposes.

VOLUME 54 SCIENCE AND TECHNOLOGY, SPACE SAFETY AND RESCUE 1979-81, 1983

VOLUME 40-1 AAS MICROFICHE SERIES, SPACE SAFETY AND RESCUE 1976, 1982

(Ninth International Space Safety and Rescue Symposium, International Astronautical Federation Congress, October 11-16, 1976, Anaheim, California)

IAA 76-A01* Crew Safety, D.K. Slayton

IAA 76-A02 Not Available

IAA 76-A03 Not Available

IAA 76-A04 Recovery from a Tumbling Condition in Space, G.S. Canetti

IAA 76-A05 Lunar Escape Systems Feasibility Study, J.O. Matzenauer

IAA 76-A06 Space Rescue and Other Space Operations from Existing Airstrips, R. Salkeld

IAA 76-A07 Not Available

IAA 76-A08 Not Available

IAA 76-A09 Use of Water Sprays in Space Rescue and Retrieval Operations, M.H. Kaplan, D.C. Freesland

IAA 76-A10 Not Available

IAA 76-All Space Shuttle Program Safety Overview, N.E. Brown

IAA 76-A12 Annual Survey of Recovery Capabilities, G.W. Heath

IAA 76-A13 Survey of Space Flight Safety Systems, Sixth Supplement, Survey Period July 1975 - June 1976, H.D. Wolf

^{*} These numbers may also be designated "IAF".

Only abstracts appear in Volume 54, Science and Technology and the papers appear in full in Volume 40, AAS Microfiche Series.

- VOLUME 54 SCIENCE AND TECHNOLOGY, SPACE SAFETY AND RESCUE 1979-81, 1983
- VOLUME 40-2 AAS MICROFICHE SERIES, SPACE SAFETY AND RESCUE 1977, 1982

 (Tenth International Space Safety and Rescue Symposium,
 International Astronautical Federation Congress, September 30 October 1, 1977, Prague, Czchoslovakia)
- IAA 77-A31 Approach and Landing Test Project, D.K. Slayton, T.U. McElmurry
- IAA 77-A32* Non-Specific Training as a Factor to Ensure Space Flight Safety, G.M. Kolesnikov, N.V. Krylova, V.A. Popov, I.B. Solovyova
- IAA 77-A33 System Safety in Manned Space Flight, J.B. Hammack
- IAA 77-A34* The Synthesis of Control Algorithm for Maneuvering a Space Shuttle Vehicle, A.A. Zhevnin
- IAA 77-A35 Survey of Space Flight Safety Systems, Seventh Supplement, Survey Period: July 1976 June 1977, N.E. Brown
- IAA 77-A36 Designing Payloads for Safety on the Space Transportation System, G.S. Canetti
- IAA 77-A37* Principles to Develop a Model of Danger in Space, G.T. Beregovoy, G.P. Shibanov, V.I. Yaropolov, I.I. Baranetsky
- IAA 77-A38 Shuttle Remote Manipulator System Safety and Rescue Support Capabilities, J.W. Brown, G.D. Whitehead
- IAA 77-A39* Radiation Protection for Manned Orbital Stations, N.N. Gurovsky, E.E. Kovalev, V.M. Petrov
- IAA 77-A40 Not Available

Note: Only abstracts appear in Volume 54, Science and Technology and the papers, unless otherwise indicated, appear in full in Volume 40, AAS Microfiche Series.

^{*} Only an abstract or summary was available for publication.

- IAA 77-A41 The Probability of Decompression Sickness as a Result of
 Going Out in a Pressure Suit from a Spacecraft with an
 Atmosphere Close to that on Earth, A.S. Barer, L.G. Golovkin,
 S.N. Filipenkov, I.N. Chernyakov, A.A. Sheikin
- IAA 77-A42 Advanced Vehicle Concepts for Earth-Orbit Transportation and Rescue, R.C. Haefeli
- IAA 77-A43 Survey of Recovery Capabilities, G.W. Heath
- IAA 77-A43A Worldwide Disaster and Rescue Response Employing Space-Borne Systems, I.H.Ph. Diederiks-Verschoor
- IAA 77-A70-A72 Not Available
- IAA 77-A73 A Space-Based Public Service Platform for Terrestrial Rescue Operations, R. Fleisig, J. Bernstein, D.C. Cramblit
- IAA 77-A74 Not Available
- IAA 77-A75 Distress Detection, Location, and Communications Using Advanced Space Technology, W.E. Sivertson, Jr.
- IAA 77-A76-A80 Not Available
- IAA 77-A81 · Worldwide Disaster and Rescue Response, Discussion Perspective, G.W. Heath

VOLUME 54	SCIENCE AND TECHNOLOGY, SPACE SAFETY AND RESCUE 1979-81, 1983
VOLUME 40-3	AAS MICROFICHE SERIES, SPACE SAFETY AND RESCUE 1978, 1982
	(Eleventh International Space Safety and Rescue Symposium, International Astronautical Federation Congress, October 2-3, 1978, Dubrovnik, Yugoslavia)
IAA 78-A55	Saver - A Potential Space Emergency Return System, G.S. Canetti
IAA 78-A56	On Man's Adaptation to the Operator's Work Under Stressful Conditions of Space Flight, G.T. Beregovoy, N.V. Krylova, I.B. Solovyova
IAA 78-A57	Risk Assessment Process as Applied to the Space Shuttle, R.L. Peercy, Jr.
IAA 78-A58	Not Assigned
IAA 78-A59	Flight Safety Aspects of Astronaut Tether Dynamics, A.I. Sibila
IAA 78-A60	Salyut 6 Extravehicular Semi-Rigid Space Suit, G.I. Severin, V.I. Svertshek, I.P. Abramov, A.Yu. Stoklitskiy
IAA 78-A61	Annual Survey of Space Flight Safety Systems: 8th Supplement, Survey Period: July 1977 - June 1978, N.E. Brown
IAA 78-A62	Not Assigned
IAA 78-A63-A65 Not Available	
IAA 78-A66	The Norwegian Search and Rescue Service, T. Høydal
IAA 78-A67*	An International Satellite-Aided Search and Rescue System, A.E. Winter, W.N. Redisch, B.J. Trudell
IAA 78-A68	Description of the Distress Radio Call System of the Federal Republic of Germany, W. Goebel
IAA 78-A69	Perspectives on Worldwide Disaster and Rescue Response Employing Space-Borne Systems, G.W. Heath
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* Only an abstract was available for publication.

Microfiche Series.



AAS TECHNICAL PAPERS 1979



VOLUME 39 ADVANCES IN THE ASTRONAUTICAL SCIENCES, 1979 VOLUME 31 AAS MICROFICHE SERIES, (AAS Rocky Mountain Guidance and Control Conference. February 24-28, 1979, Keystone, Colorado) *AAS 79-001 Space Navigation Using the Navstar Global Positioning System (GPS), J.E.Farr AAS 79-002 Precision Correlation Tracking, J.M.Fitts AAS 79-003 Thruster Select Logic Determination for Attitude Control of Skylab by Teleoperator Retrieval System, G.A.Cook AAS 79-004 Pioneer Venus Star Sensor, R.L.Gutshall, G.Thomas AAS 79-005 Autonomous Attitude Determination Systems, J.W.Lowrie AAS 79-006 Agile Spacecraft Attitude Reference System Design, H.J. Dougherty, E.J.Pelka, J.J.Rodden AAS 79-007 to -010 Not Assigned AAS 79-011 Requirements and Opportunities for Autonomous Systems in Space, W.B.Gevarter, E.Heer AAS 79-012 Advanced Guidance and Control Technology for Spacecraft Automation, R.T.Schappell AAS 79-013 Autonomous Star Sensing and Attitude Estimation, J.L. Junkins, T.E.Strikwerda Inertial Measurement Unit Redundancy Management, G.Quasius, AAS 79-014 J.Boutelle, D.E.Sanders, R.VanderVoort, S.P.Kau The Fault Tolerant Spaceborne Computer (FTSC), G.Gilley AAS 79-015 Spacecraft Automated Operations, T.H.Bird, B.L.Sharpe AAS 79-016

^{*} Unless otherwise indicated all papers appear in Volume 39, Advances

- AAS 79-017 to -020 Not Assigned
- AAS 79-021 DRIRU II--The NASA Standard High Performance Inertial Reference Unit, R.B.Irvine, J.W.Ritter
- AAS 79-022 A User's Guide for Standard Star Tracker, R.A.Deters
- AAS 79-023 Standard Reaction Wheel (SRW), C.Sutter, J.Walberg
- AAS 79-024 NASA Standard Computers: A Description and Comparison, M.S.Ross
- AAS 79-025 The NASA Multimission Spacecraft Modular Attitude Control System, J.W.Murrell
- AAS 79-026 MMS--A Systems Level View of Standardization, S.Myers, H.Raymond
- AAS 79-027 to -030 Not Assigned
- AAS 79-031 Attitude Control for the TRS, F.E.Bikle
- AAS 79-032 A Concept for Shifting the Reentry Point of Skylab, M.H. Kaplan, S.G.Alexander
- AAS 79-033 Effects of Tether Attachments on the Shuttle/Tethered Satellite System Dynamics, L.L.Gresham, C.C.Rupp
- AAS 79-034 Navigation and Flight Control of the Inertial Upper Stage,
 A.K.Goodfellow
- AAS 79-035 Changing Inclination for Shuttle Payloads, T.M.Spencer, R.Glickman, G.Porcelli (v31 Mic)
- AAS 79-036 Interim Upper Stage Guidance System Mission Success Analysis, W.G.McArthur, R.Baum
- AAS 79-037 A Multivariable Control System Design Algorithm,
 L.L.Gresham, J.R.Mitchell, W.L.McDaniel, Jr. (v31 Mic)
- AAS 79-038 Atmospheric Entry as an Optimal Control Problem, R. D. Culp (v31 Mic)
- AAS 79-039 Not Assigned

- VOLUME 49 SCIENCE AND TECHNOLOGY, SPACE--NEW OPPORTUNITIES FOR INTER-NATIONAL VENTURES, 1980
- VOLUME 2 AAS HISTORY SERIES, TWENTY-FIVE YEARS OF THE AMERICAN ASTRO-NAUTICAL SOCIETY, Historical Reflections and Projections, 1954-1979
- VOLUME 3 AAS HISTORY SERIES, BETWEEN SPUTNIK AND THE SHUTTLE, New Perspectives on American Astronautics, 1980

 (Seventeenth AAS Goddard Memorial Symposium, Space--New Opportunities for International Ventures, March 28-30, 1979, Washington, D.C.)
- AAS 79-040* Not Available
- AAS 79-041 Space--New Opportunities for International Ventures, R.Gibson
- AAS 79-042 New Opportunities for International Ventures, P.Jankowitsch
- AAS 79-043, -044 Not Assigned
- AAS 79-045 Tracking and Data Relay Satellite System--Space Data System of the 80's, R.O.Aller, L.M.Robinson
- AAS 79-046 Achievements and Perspectives in the Space Programme, M.Bignier
- AAS 79-047 Spinning Upper Stages Capability, T.D.Smith, E.H.Peterson
- AAS 79-048 Space Shuttle Now and Later, M.S.Malkin
- AAS 79-049 Not Available
- AAS 79-050 Perspectives on American Astronautics, F. C. Durant, III (v3 AAS History)
- AAS 79-051 Not Available
- AAS 79-052 Technology-- the Essential Base, J. J. Kramer
- AAS 79-053 Planning for STS Operations, C. M. Lee
- AAS 79-054, -055 Not Assigned

^{*} Unless otherwise indicated papers appear in Volume 49, Science and Technology.

- AAS 79-056, -057 Not Available
- AAS 79-058 Commercial Potential of the Space Shuttle, G.W.Keyes
- AAS 79-059 Space Structure: a Key to New Opportunities, R.Kline
- AAS 79-060 Not Available
- AAS 79-061 Earth Observation--Cooperative Mission or Competitive Venture,
- AAS 79-062 to -064 Not Assigned
- AAS 79-065 Western Union's Communication Satellite Activities, E.D.Hilburn
- AAS 79-066 Financing the Space Investment, R.E.LaBlanc
- AAS 79-067 Not Available
- AAS 79-068 The European Approach to the Financing of Space Ventures, H.Dummler
- AAS 79-069 Not Assigned
- AAS 79-070 A Review on the Formulation of Development Alternatives and Requirements of Future Indonesian Satellite Communications Systems, H.Djojodihardjo, E.Jamin
- AAS 79-071 Not Available
- AAS 79-072 Overview of the Japanese Space Activities, Y.Kuroda
- AAS 79-073 The Space Transportation System and Europe, G.van Reeth
- AAS 79-074, -075 Not Assigned
- AAS 79-076 Presidents and Space: From Eisenhower to Carter, E.M.Emme (v3 AAS History)
- AAS 79-077 Evolution of Space Transportation: Reflections and Projections, J.H.Disher (v3 AAS History)
- AAS 79-078 US Congress and Outer Space: From Sputnik to the Shuttle, E.Galloway (v3 AAS History)
- AAS 79-079 Lessons of Apollo for Large-Scale Technology, R.C.Seamans, Jr., F.I.Ordway III (v3 AAS History)
- AAS 79-080 History Workshop Introduction, E.M.Emme (v2 AAS History)
- AAS 79-081 A Genesis on Staten Island, H.J.Behm (v2 AAS History)

- AAS 79-082 Founding of the AAS, 1953-1954, J.H.Rosenquist (v2 AAS History)
- AAS 79-082a The Informative Years, 1954-1955 (Abstract), R.C.Wakeford (v2 AAS History)
- AAS 79-083 More Ways than One, M. Caidin (v2 AAS History)
- AAS 79-084 A Tribute to the Second AAS President and Recollections of the Pre-Sputnik Days, H.Jacobs, N.V.Petersen (v2 AAS History)
- AAS 79-085 A Historical Perspective of the AAS, 1954-1958, R.Fleisig (v2 AAS History)
- AAS 79-086 The Early Journal Years 1954-1955, F.I.Ordway III (v2 AAS History)
- AAS 79-087 A Few Reflections, 1959-1960, G.R.Arthur (v2 AAS History)
- AAS 79-088 Some People and Their Activities, 1960-1962, A.M.Mayo, J.S. Troutman (v2 AAS History)
- AAS 79-088a Comments on the Presidency of W.L.Whitson, H.Jacobs (v2 AAS History)
- AAS 79-089 People, Ideas, and Opportunities, 1964-1965, G.W.Morgenthaler (v2 AAS History)
- AAS 79-090 Years of Growth in the Manned Space Effort, 1966-1967, L.Larmore (v2 AAS History)
- AAS 79-090a Comments on the Presidency of E. B. Konecci, 1968, H.Jacobs (v2 AAS History)
- AAS 79-091 The Apollo Lunar Landing Period, 1969-1970, P.Dergarabedian (v2 AAS History)
- AAS 79-092 The Post-Apollo Challenge, 1971-1972, P.B.Richards (v2 AAS History)
- AAS 79-092a Comments on the Presidency of J. R. Gilmer, 1973, H.Jacobs (v2 AAS History)
- AAS 79-093 Involvement and Commitment, 1974-1976, P.H.Bolger (v2 AAS History)
- AAS 79-094 Evolution of the AAS Publication Program, H.Jacobs (v2 AAS History)
- AAS 79-095 Enduring Challenges of Astronautics, S.F.Singer (v2 AAS History)
- AAS 79-096 On the Space Imperatives, G.W.Hoover (v2 AAS History)

AAS 79-097	Perspectives on the AAS, F.C.Durant III (v2 AAS History)
AAS 79-098	The Present and the Future, R.L.Gervais (v2 AAS History)
AAS 79-099	Imagination and Technology for the Future Space Program, C.Sheffield (v2 AAS History)

- VOLUME 40 ADVANCES IN THE ASTRONAUTICAL SCIENCES, ASTRODYNAMICS 1979, 1980
- VOLUME 32 AAS MICROFICHE SERIES, AAS/AIAA ASTRODYNAMICS CONFERENCE 1979, A Supplement to Volume 40, Advances

 (AAS/AIAA Astrodynamics Conference, June 25-27, 1979, Provincetown, Massachusetts)
- AAS 79-100* On-orbit Assembly of Large Space Structures (LSS) Using An Autonomous Rendezvous and Docking, F.A.Vandenberg (Part II)
- AAS 79-101 The Geometry of Stellar Occultation Measurements on Long-Duration Atmospheric Monitoring Missions, D.R.Brooks (Part II)
- AAS 79-102 Mission Analysis for Earth Atmospheric Measurements Using Solar Occultation Experiments on Shuttle Spacelabs, E.F. Harrison, G.F.Lawrence, S.L.Lamkin (Part II)
- AAS 79-103 A General Dynamical Model for the Space Shuttle Based Tethered Subsatellite System, V.J.Modi, A.K.Misra (Part II)
- AAS 79-104 Inclination Change by Solar Sail in Low Earth Orbit, T.O.Morgan (Part II)
- AAS 79-105 A Study of the Lifetime of Geosynchronous Transfer Orbits, O.F.Graf, Jr., A.C.Mueller (Part II)
- AAS 79-106 An Overview of Deep Space Navigation Systems (Abstract), J.F.Jordan (Part I)
- AAS 79-107 An Overview of Earth Satellite Orbit Determination, A.J.Fuchs, R.Kolenkiewicz (Part I)
- AAS 79-108 An Overview of the Navstar Global Positioning System and the Navy Navigation Satellite System, R.W.Hill (Part I)
- AAS 79-109 An Overview of Navigation and Guidance Problems in the Japanese Space Projects, T.Nishimura (Part I)
- AAS 79-110 Navigation System Design for a Halley Flyby/Tempel 2 Rendezvous Mission Using Ion Drive, L.J.Wood, S.L.Hast (Part I)

^{*} Unless otherwise indicated all papers appear in Vol.40, Advances in the Astronautical Sciences.

- AAS 79-111 The JPL Orbit Determination Software System, J.E.Ekelund (Pt I)
- AAS 79-112 A Suggested Trajectory for a Venus-Sun, Earth-Sun Lagrange Points Mission, VELA, D.F.Bender (Part I)
- AAS 79-113 Not Assigned
- AAS 79-114 Multiple Asteroid Rendezvous Missions, D.F.Bender, A.L. Friedlander (Part I)
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- AAS 79-116 The Science and Mission Design for a Venus Orbiting Imaging Radar Mission, S.S.Dallas, S.J.Kerridge (v32 Micro)
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(Commercial Operations in Space 1980-2000, 18th Goddard Memorial Symposium, March 27-28, 1980, Washington, D.C.)

- AAS 80-050* Evolution and Problems of Space Law, S.E.Doyle (v3 AAS History)
- AAS 80-051 The Political Economy of American Astronautics, M.A.Holman, T.Suranyi-Unger (v3 AAS History)
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- AAS 80-054 Not Assigned
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- AAS 80-056 Materials Engineering in Space, J.R.Carruthers
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- AAS 80-058 to -061 Not Available
- AAS 80-062 Crop Reporting from Space: Problems, Promises, Potential, D.Paarlberg
- AAS 80-063 to -064 Not Available
- AAS 80-065 Commercial Opportunities in Space--a European Viewpoint, W.J.Mellors

AAS 80-066 Ariane, F.d'Allest

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- AAS 80-067 to -069 Not Available
- AAS 80-070 Economic and Political Climate for Exploitation of Space Riches, D.L.Kuck
- AAS 80-071 to-075 Not Available
- AAS 80-076 Space Industrialization Act and the Government Role in the Commercialization of Space, D.E.Cassidy
- AAS 80-077 Not Available
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- AAS 80-078 Not Available
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- AAS 80-080 Space Shuttle Power Extension Package, J.P.Loftus, Jr., J.W. Craig
- AAS 80-081 NASA's 25 kW Power Module--Reference System, L.E.Powell
- AAS 80-082 Electric Orbit Transfer Vehicles--their Role and Key Considerations (Abstract), E.E.Davis (v34 Micro)+
- AAS 80-083 Orbital Transfer of Large Space Structures with Nuclear Electric Rockets, T.H.Silva, D.C.Byers
- AAS 80-084 Satellite Power System (SPS) Overview of System Studies and Critical Technology, S.V.Manson
- AAS 80-085 Not Available
- AAS 80-086 Approaches to Private Sector Involvement with Government in Technology Development, H.Herman
- AAS 80-087 Not Available
- AAS 80-088 Innovation of Space Technology through Joint Endeavors between NASA and Private Industry, J.R.Carruthers
- AAS 80-089 Commercial Operations for the External Tank in Orbit, T.C. Taylor
- AAS 80-090 The Mixed-Mode Principle and Advanced Chemical Rocket Engine Concepts (Abstract), K.Christensen (v34 Micro; see also AAS 79-318)
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^{+ &}quot;Micro" stands for AAS Microfiche Series

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(Careers in Space Conference, July 18-19, 1980, San Jose,
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AAS 80-100 to 101 Not available

AAS 80-102 Historical Overview, Sputnik to the Shuttle (Abstract), E. Burgess

AAS 80-103 Not available

AAS 80-104 Introduction to Space Law (Abstract), T.E. Wolcott

AAS 80-105 to -108 Not available

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AAS 80-110 Not available

AAS 80-111 to -114 Not available

AAS 80-115 Careers in Lunar Resource Use, J. Oldson

AAS 80-116 to -119 Not available

AAS 80-120 Careers in Remote Sensing, C. Sheffield

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AAS 80-125 Planetariums and Promotion (Abstract), T. Gates

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AAS 80-127 Be Your Own Aerospace Company, T.C. Taylor

AAS 80-128 Do It Yourself: An Ethic for Those Interested in Careers in Space, S. Kent

AAS 80-129 to -149 Not assigned

- VOLUME 43 ADVANCES IN THE ASTRONAUTICAL SCIENCES, SHUTTLE/SPACELAB-THE NEW TRANSPORTATION SYSTEM AND ITS UTILIZATION
 - (3rd DGLR/AAS Symposium, Shuttle/Spacelab--The New Transportation System and its Utilization, April 28-30, 1980, Hannover, Germany)
- AAS 80-150 -161 Not Assigned
- AAS 80-162* Not Available
- AAS 80-163 Space Policy in the 1980's and International Cooperation, M. Bignier
- AAS 80-164 Space Policies of the 80s and International Cooperation, W. Finke
- AAS 80-165 STS Operations Planning Current Status and Outlook for the Future, C.M. Lee
- AAS 80-166 Not Available
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- AAS 80-168 -169 Not Available
- AAS 80-170 Spacelab Follow-on Development, B.Pfeiffer, W.Nellessen
- AAS 80-171 Space Shuttle Progress, R.Schwartz
- AAS 80-172 Spacelab Development Status and Follow-on Production, A.Kutzer
- AAS 80-173 Inertial Upper Stage--Development Status and Performance, G.T.Ringe, E.L.Bangsund
- AAS 80-174 Status of the Payload Assist Module (PAM), C.A.Ordahl
- AAS 80-175 The Shuttle's Remote Manipulator System--Status and Operation, C.M.Hinds
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- AAS 80-178 Not Available
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- AAS 80-182 Manned Remote Work Station--a Flexible Tool for Shuttle Operations, R.L.Kline, C.A.Nathan
- AAS 80-183 Not Available
- AAS 80-184 The German Contribution to the Galileo Jupiter Orbiter Project, W.Hagenest
- AAS 80-185 Not Available
- AAS 80-186 25 kw Power System (Abstract), L.E.Powell
- AAS 80-187 -188 Not Available
- AAS 80-189 MAUS--Space Processing Payloads, P.Vits
- AAS 80-190 Not Available
- AAS 80-191 The IR-Telescope Project GIRL, German Infrared Laboratory, D.Genthe
- AAS 80-192 Not Available
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- AAS 80-194 Advanced Space Transportation Systems, J.H.Disher, J.P.Heth-coat, M.A.Page
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- AAS 80-197 Europe and Future Space Transportation Systems, D.E.Koelle, R.G.Reichert
- AAS 80-198 -199 Not Assigned

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- VOLUME 35 AAS MICROFICHE SERIES, Supplement to Volume 44, Advances, 1981

(AAS 27th Annual Meeting, October 20-23, 1980, Boston, Massachusetts)

- AAS 80-200, -201 Not Assigned
- AAS 80-202* An Overview of the NAVSTAR Global Positioning System (GPS), C.J.Zoller
- AAS 80-203 Transit--the Navy Navigational Satellite System, G.C.Weiffenbach (Abstract)
- AAS 80-204 Search and Rescue Satellite-Aided Tracking System, B.Trudell, J.M.Gutwein, R.Vollmers, D.Wammer
- AAS 80-205 EHF Satellite Communications for Mobile Terminals, L.D.Collins
- AAS 80-206 Advanced Communications Satellites, J.N.Sivo
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- AAS 80-210 Not Available
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- AAS 80-212 Prospects for Lunar Resources, T.A. Heppenheimer
- AAS 80-213 The Resource Potential of Earth Approaching Asteroids, B.O'Leary
- AAS 80-214 The Venus Orbiting Imaging Radar (VOIR) Mission, J.A.Gardner, W.W.James
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- AAS 80-218 Review of NASA Programs in Applying Aerospace Technology to Energy, F.C.Schwenk
- AAS 80-219 Current Programs and Future Prospects in Space Power Technology, J.P.Mullin, W.R.Hudson, L.P.Randolph, J.H.Ambrus
- AAS 80-220 Space Nuclear Electric Power Systems, G.L.Bennett, J.J.Lombardo, B.J.Rock
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- AAS 80-222 Not Available
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- AAS 80-229 Man's Role in Space--the Far Potential, H.L.Mayer
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- AAS 80-231 Limitations to Manned DOD Space Operations, D.H.Quine (Abstract)
- AAS 80-232 The Space Test Program's Sortie Support System, T.J.Cody, Jr., J.C.Bailey
- AAS 80-233 to -235 Not Assigned
- AAS 80-236 Renewable Resource Applications of Remote Sensing in the 1980's, R.M.Ragan, M.A.Calabrese
- AAS 80-237 Geoscience Applications of Space Technology in the 1980's, E.A.Flinn (Summary)
- AAS 80-238 Visible and Infrared Sensors for Earth Resource Observation in the '80s, D.C.Smith, R.H.Howell
- AAS 80-239 Microwave Sensors for Earth Resource Observations in the 1980's, J.W.Rouse, Jr., M.J.Harnage, Jr.
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- AAS 80-241 Not Assigned

- AAS 80-242 Performance Options for the Operational Land Remote Sensing System, E.W.Mowle
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- AAS 80-245 Establishing a Research Program in Materials Processing, M.C. Flemings (Abstract)
- AAS 80-246 A Progress Report on Commercial Materials Processing in Space (CMPS), R.L.Brown (v35 Micro)
- AAS 80-247 Science and Technology Development for Materials Processing in Space, J.R.Williams (v35 Micro)
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- AAS 80-249 Materials Experiment Carrier an Approach to Expanded Space Processing Capability, K.R.Taylor, H.F.Meissinger, D.M.Waltz
- AAS 80-250 Space Materials Systems--Evolution of Technologies to Utilize Extraterrestrial Materials, J.R.Carruthers (Abstract)
- AAS 80-251 Is Space Ready for Private Investment? J.Shea (Abstract)
- AAS 80-252 Space Exploration--Progress or Plateau, R.T.Marsh
- AAS 80-253 -266 Not Assigned
- AAS 80-267 Many Dimensional (20?), Unsteady Flow in and Around a Complex Structure, or the Supercomputers of the Future, C.N.Arnold
- AAS 80-268 The Build System--Integration and Management of Large Software Avionic Systems, J.T.B.Mayer
- AAS 80-269 Requirements Specifications for Embedded Astronautic Systems-an Innovative Methodology, J.D.Rosenbaum, W.R.Hackler (v35 Micro)
- AAS 80-270 Fault Detection, Identification and Reconfiguration--an Emerging Discipline in the Development of Highly reliable Space Systems, J.J.Deyst, Jr., J.V.Harrison, E.Gai, K.C.Daly
- AAS 80-271 Control of Large Space Structures--Technology Challenges for This Decade, M.G.Lyons, S.M.Seltzer (Abstract)
- AAS 80-272 Navigation Accuracy Issues for Near-Earth Orbital Users of GPS, G.Matchett
- AAS 80-273, -274 Not Assigned
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- AAS 80-276 Structures Matching the Space Environment: Bridges or Spider Webs, H.L.Mayer

- AAS 80-277 Space Construction of Large Structures--Beyond What Sizes Should You Want to Space-Fabricate Rather Than Erect or Deploy? E.Katz, H.Myers
- AAS 80-278 Is There a Case for Aggregation of Payloads Onto Common Structures of Platforms in Space? R.M.Bowman
- AAS 80-279 Should Large Space Structures Depend on Mechanical Precision or Adaptive Control? S.R.Croopnick
- AAS 80-280 to -282 Not Assigned
- AAS 80-283 Meteorological Observations from Space in the 1980's, W.L.Smith (Abstract)
- AAS 80-284 Oceans Observations from Space in the 1980's, A.Strong (Abstract)
- AAS 80-285 Not Available
- AAS 80-286 Climate Observations from Space in the 1980's, T.H. Vonder Harr
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- AAS 80-288 to -290 Not Assigned
- AAS 80-291 Not Available
- AAS 80-292 The Space Shuttle, M.A.Faget
- AAS 80-293 How Space Transportation and Propulsion Have Enhanced Our Technological Leadership, N.J.Ryker
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- AAS 80-295 Attracting Shuttle Users Via STS Enhancement, H.E.Emigh, B.A. Salazar (Abstract)
- AAS 80-296 to -299 Not Assigned

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AAS 80-300*	Space in the 1980's and Beyond: Opening Address, E. Quistgaard
AAS 80-301	A Developing Space Programme for Europe, J.C. Hawkes
AAS 80-302	Proposals for a European Long-Term Space Policy, M. Toussaint
AAS 80-303	Technology - The Path to the Next 50 Years, D.P. Williams, S.R. Sadin, (Abstract, v53 S&T+; in full in JBIS+ v 34 pp58-64, 1981)
AAS 80-304	Proposals for a European Long-Term Space Policy: Executive Summary, J. Delorme
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AAS 80-306	Not Available
AAS 80-307	L-SAT - Europe's Satellite for the Eighties, P.D. Biggs, J.L. Blonstein
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AAS 80-311	Capabilities of IDR-Augmented Ariane, A. Burati (Abstract, v53 S&T in full in JBIS v34, pp162-166, 1981)
AAS 80-312	The Next Generation of Launch Vehicles, D.E. Koelle, (JBIS, 1981)

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- AAS 80-314 European Space Transportation Approaches, G. Peters, A. Lemarchand (Abstract, v53 S&T; in full in JBIS, v34, pp65-71, 1981)
- AAS 80-315 After Spacelab and Ariane Possibilities and Chances for Future Space Activities, H.L. Jordan, H. Sax
- AAS 80-316 Project Spacecab A Minimum-Cost Orbital Taxi, D.M. Ashford, G.C.J. Larrouceau (Abstract, v53 S&T; in full in JBIS, v34, pp3-9, 1981)
- AAS 80-317 Spacelab Mission 1 A Typical Example of Spacelab Utilization, W. Riesselmann
- AAS 80-318 Spacelab Module: The Habitability Element of the Future Space Systems, E. Vallerani
- AAS 80-319 Manufacturing in Space, J. Cacheux, R. Torossian, M. Do-Mau-Lam
- AAS 80-320 Contributions of Space Reflector Technology to Food Production, Local Weather Manipulation and Energy Supply, K.A. Ehricke
- AAS 80-321 Not Available
- AAS 80-322 Not Available
- AAS 80-323 Technological Approach Towards Future Large Solar Arrays,
 B. Goergens
- AAS 80-324 Not Available
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- AAS 80-326 Not Available
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- AAS 80-328 Low-Pressure Greenhouses and Plants for a Manned Research Station on Mars, P.J. Boston
- AAS 80-329 Extraction of Martian Resources for a Manned Research Station, T.R. Meyer
- AAS 80-330 The Planetary Exploration Program after Two Decades, J.N. James (Abstract, v53 S&T; in full in JBIS v34, pp27-32, 1981)
- AAS 80-331 On the Composition and Deployment of a Space-Based Interstellar Search System, W. Stuiver, D. Southwood, F.Y. Enomoto (JBIS, 1981)
- AAS 80-332 to -339 Not Assigned

VOLU	JME 48	SCIENCE AND TECHNOLOGY, HANDBOOK OF SOVIET MANNED SPACE FLIGHT, by Nicholas L. Johnson, 1980, 474p
		(An AAS monograph, not the product of an AAS conference)
*AAS	80-340	Vostok: Spacecraft Design, Precursor and Operational Flights
AAS	80-341	Voskhod: Spacecraft Design, Precursor and Operational Flights
AAS	80-342	Soyuz: Spacecraft Design, Variations, Precursor and Operational Flights
AAS	80-343	Salyut Space Station: Salyut Programs, First, Second, Third Generation Spacecraft Design, Progress Spacecraft
AAS	80-344	Soyuz - Salyut Missions: Operational Missions, Future Operations
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AAS	80-347	Soviet Manned Space Missions
AAS	80-348	Bibliography
AAS	80-349	Not Assigned

^{*} AAS numbers have been assigned to chapters for identification purposes.

- VOLUME 54 SCIENCE AND TECHNOLOGY, SPACE SAFETY AND RESCUE 1979-81, 1983
- VOLUME 41-1 AAS MICROFICHE SERIES, SPACE SAFETY AND RESCUE 1980, 1982

 (Thirteenth International Space Safety and Rescue Symposium, International Astronautical Federation Congress, September 25-26, 1980, Tokyo, Japan)
- IAA 80-12* Safer Way with EVA, R.E. Breeding, H.R. Griswold
- IAA 80-13 Protective Clothing Textile Research for Space Activities in the 1980's, M.I. Radnofsky, J.J. Kosmo
- IAA 80-14* Evaluation of Radioactive Hazards Following Nuclear-Powered Satellite Reentry, E.A. Hutchinson-Benson, J. Svoboda, H.W. Taylor
- IAA 80-15 Not Assigned
- IAA 80-16 Annual Survey of Spaceflight Safety Systems: 10th Supplement, Survey Period: July 1979 June 1980, N.E. Brown, J.W. Brown
- IAA 80-17* Satellites to Aid Flight Safety, C. Rosetti
- IAA 80-18* Computer Simulation Model, Adjunct to Emergency Satellite
 Communications Systems: Applications in Civil Mass Casualty
 Distress Response, P.B. Richards
- IAA 80-19 Frequency Spectrum Availability for Search and Rescue Satellite Systems in the Light of the Results of the WARC 1979, G.F. Block
- IAA 80-20, 21 Not Assigned
- IAA 80-22* Disaster Warning Using the GOES Satellite, J.G. Vaeth
- IAA 80-23, 24 Not Assigned
- IAA 80-25 Discussion of the Safety Capability of a Maritime Space Segment A New Proposal for a Satellite EPIRB System, R. Rogard

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- IAA 80-26 Maritime Distress Radio Call Systems Employing Space-Borne Technology, W. Goebel, G. Landauer, E. Messerschmid
- IAA 80-27 Development and Testing of a Satellite-Aided Maritime Distress Alerting System, J.J. Fee, Y. Kaminsky, W. Scales, R.E. Todd
- IAA 80-28 Possibility of Creating Combined Search and Rescue Satellite-Aided System, Y.G. Zurabov, V.A. Bogdanov, I.S. Bronitsky

AIAA/AAS ASTRODYNAMICS CONFERENCE

(August 11-13, 1980, Danvers, Massachusetts)

Proceedings: Contact AIAA for information.

No AAS numbers assigned.



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- VOLUME 45 ADVANCES IN THE ASTRONAUTICAL SCIENCES, GUIDANCE AND CONTROL 1981
- VOLUME 36 AAS MICROFICHE SERIES, 1981, Supplement to Vol. 45 Advances

 (Annual Rocky Mountain Guidance and Control Conference,
 January 31 February 4, 1981, Keystone, Colorado)
- AAS 81-001* Use of Magnetics in Attitude Control at APL, F.F. Mobley, B.E. Tossman, G.H. Fountain, K.J. Heffernan
- AAS 81-002 The Application of Magnetic Torquing to Spacecraft Attitude Control, G.E. Schmidt, Jr., L. Muhlfelder
- AAS 81-003 Toward Autonomous Magnetic Attitude Control, W.W. Emsley, B.G. King, T.M. Spencer, K.D. Stewart, R.P. Woolley
- AAS 81-004 Magnetic Control and the 25 kW Power System, J.H. Decanini, H. Flashner, H. Schmeichel
- AAS 81-005 Magnetic Control Systems for Large Spacecraft with Applications to Space Telescope, H. Dougherty, J. Machnick, A. Nakashima, J. Henry, K. Tompetrini
- AAS 81-006 Magnetic Control Systems for Satellites in Synchronous Orbit, R. Gran, M. Proise
- AAS 81-007 Precision Autonomous Satellite Attitude Control using Momentum Transfer and Magnetic Torquing, J.L. Junkins, S. Rajaram, W.A. Baracat
- AAS 81-008 / 009 Not assigned
- AAS 81-010 Not available
- AAS 81-011 Manned Maneuvering Unit Testing Through Real-Time Simulation, D.J. Cwynar, D.J. Sexton
- AAS 81-012 The Autonomous Magnetic Attitude Control System for the Solar Mesosphere Explorer, K.D. Stewart, W.A. Russo, (v36 Micro)

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Galileo, R.D. Rasmussen

AAS 81-034 A Method of Testing Attitude Control Systems during the Development Phase, A. Besonis, H. Dougherty, J. Levinthal, P. Meadows AAS 81-035 Development Testing of Firmware Flight Programs for Spacecraft Attitude Control Systems, D.H. Brady, F.W. Hermann AAS 81-036 Not available AAS 81-037 to 039 Not assigned The Recovery of the HEAO-2 Observatory, R.E. Rose, H. Nakano, AAS 81-040 J.A. Stafa, W.L. Brady AAS 81-041 FILE-IB Aircraft Flight Test Program, H.M. Thomas AAS 81-042 Voyager Saturn Encounter Attitude and Articulation Control Experience, G. Carlisle, M. Hill AAS 81-043 Attitude and Pointing Control of the SBS Communication Satellite Bus, J.W. Smay AAS 81-044 A Validated Methodology for Accurately Predicting Missile Flight Performance, H.L. Pastrick, S.M. Seltzer AAS 81-045 Not available Flight Performance of SEASAT-1 Attitude Control System, AAS 81-046 S.W. Beach, R.J. Hendricks, J.J. Rodden, D.G. Simcox

Astrodynamics - a New Look at Some Old Problems (Spacecraft

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AAS 81-048 to 050 Not assigned

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VOLUME 5	AAS HISTORY SERIES, SPACE-FICTION SPACE FUTURES: PAST AND PRESENT, 1982
	(International Space Technical Applications, 19th Goddard Memorial Symposium, March 26-27, 1981, Washington, D.C.)
AAS 81-051*	Entering the Twenty-First Century: The Global 2000 Report, H.R. Marshall, Jr.
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AAS 81-053	European Industrial Space Projects, G.C. Bernardini
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of U.S. Domestic Communications Satellites, S.W. Fordyce

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- AAS 81-066 / 067 Not assigned
- AAS 81-068 Weather and Climate, D. Atlas
- AAS 81-069 The Role of Satellite Remote Sensing in Climate -- The Next 20 Years, E.S. Epstein
- AAS 81-070 / 071 Not assigned
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- VOLUME 47 AAS MICROFICHE SERIES, SPACE OPERATIONS FOR THE 80s and 90s.

 (30th National AAS Conference, October 3-5, 1983, Colorado Springs, Colorado)
- AAS 83-450* The Air Force Space Command An Update (Keynote Address), J.V. Hartinger

AAS 83-451 to 455 Not available

AAS 83-456 U.S. Army Space Plans and Policy (Summary), E.R. Heiberg III

AAS 83-457 Not available

AAS 83-458 NASA Space Policy (Display Charts), N. Terrell

AAS 83-459 to 461 Not available

AAS 83-462 Commercial/International Plans for the 80s (Outline), J.F. Yardley

AAS 83-463 to 468 Not available

AAS 83-469 European Future Space Activities (Display Charts), W.J. Mellors

AAS 83-470 to 476 Not available

AAS 83-477 NASA in the 90s (Display Charts), R.L. Kline

AAS 83-478/479 Not available

AAS 83-480 Current NASA Headquarters View of Space Station (Display Charts), J.D. Hodge

AAS 83-481 to 499 Not assigned

^{*} All these papers appear in Volume 47, AAS Microfiche Series.

VOLUME 56	SCIENCE AND TECHNOLOGY, SPACE: A DEVELOPING ROLE FOR EUROPE, 18th European Space Symposium, 1984
VOLUME 46	AAS MICROFICHE SERIES, SUPPLEMENT TO VOLUME 56, SCIENCE AND TECHNOLOGY, 1984
	(18th European Space Symposium, June 8-9, 1983, London, England)
AAS 83-500*	Future Prospects in Space Envisaged by a Forum of European Space Companies, M. Toussaint
AAS 83-500A	Evaluation of the National Space Expenditure in Europe, M. Toussaint (v46 Micro)
AAS 83-500B	Preliminary Evaluation of the Market Accessible to the European Space Industry for the Years 1983 to 1990, M. Toussaint (v46 Micro)
AAS 83-501	European Facilities for Life Sciences Research in Space, M.J.F. Fowler, H. Oser
AAS 83-502	ESA and Microgravity Research, D.J. Shapland
AAS 83-503	ERS-1: An Ice and Ocean Monitoring Mission, P.R.C. Gillett
AAS 83-504	Precision Laser Tracking for Global Tectonics, A.G. Adelman
AAS 83-505	Remote Sensing Missions of the Future Decade, W.A. Kriegl, G. Rausch, W. Gilg
AAS 83-506	The European Space Agency's Telecommunications Programme, S.E. Dinwiddy
AAS 83-506A	L-SAT, Large European Multipurpose Telecommunications Satellite Programme, S.E. Dinwiddy (v46 Micro)
AAS 83-507	The Future of European Communications Satellites - Main Problem Areas in Space Telecommunications, R. Morris

^{*} Unless otherwise indicated all papers appear in Volume 56, Science and Technology Series. "Micro" indicates that the paper appears in the AAS Microfiche Series, Volume 46.

AAS	83-508	The Far Ultraviolet Spectroscopic Explorer, W. Cash
AAS	83-509	Not available
AAS	83-510	IRAS, The First Four Months in Orbit, J.K. Davies, S.F. Green
AAS	83-510A	IRAS Brochure, J.K. Davies, S.F. Green (v46 Micro)
AAS	83-511	Not available
AAS	83-512	Grant Back Clauses: Implications for International Space Technology Joint Ventures, T.E. Kuroki, O.W. Hennigan, Jr.
AAS	83-513	Insurance and Commercial Activity in Space, R. Buckland (v46 Micro)
AAS	83-514	The Aeroplane Approach to Launch Vehicle Design, D.M. Ashford
AAS	83-515	ARIANE 5 - HERMES, J-C. Cretenet
AAS	83-516	The Potential Market for a Low-Cost Launch Vehicle, R.C. Parkinson, C.M. Hempsell
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AAS	83-517	Not available
AAS	83-518	Evolutionary Concepts for Space Station and Relevant Utilisation Potential, P.W. Sharp
AAS	83 - 518A	Presentation Charts for AAS 83-518, P.W. Sharp (v46 Micro)
	83-519A 83-519	Dedicated Reusable Space Platforms - A New Economic Tool for Space Research and Application, W. Kleinau, D.E. Koelle (v46 Micro). Also included in Volume 60, Science and Technology.
AAS	83-520	Alternative European Approaches to a Manned Space Station for European Participation, W. Ley
AAS	83-520A	Presentation Charts for AAS 83-520, W. Ley (v46 Micro)
AAS	83-521	The US Planetary Exploration Program Opportunities for International Cooperation, G.A. Briggs
AAS	83-522 to	-549 Not assigned

^{*} Appears in Volume 60, Science and Technology and in Volume 46, AAS Microfiche Series.

- VOLUME 58 SCIENCE AND TECHNOLOGY, SPACE SAFETY AND RESCUE 1982-1983, 1984 (Sixteenth International Space Safety and Rescue Symposium, International Astronautical Federation Congress, October 10-15, 1983, Budapest Hungary) IAA 83-251 Orbiting Monitors for the Low Earth Orbit Man-Made Debris Population, R.C. Reynolds, N.H. Fischer, G.T. Ruck IAA 83-252 Spacecraft Design Alternatives to Accommodate the Collision Threat Posed by Orbiting Man-Made Debris, D.S. Edgecombe, N.H. Fischer, R.C. Reynolds TAA 83-253 The Law Applicable to the Use of Space for Commercial Activities, S.N. Hosenball IAA 83-254 Orbital Debris Management: International Cooperation for Control of a Growing Safety Hazard, D.A. Olmstead TAA 83-255 Safety of Space Activities, L. Perek IAA 83-256 An Overview of Medical-Biological Radiation Hazards in Earth Orbits, M.C. Stauber, M.L. Rossi, E.G. Stassinopoulos IAA 83-257 to -260 Not assigned IAA 83-261 Emergency Communications Via Satellite, A.E. Winter IAA 83-262 to -263 Not assigned IAA 83-264 Safety and Rescue Applications of NAVSAT - A Global Civil Navigation Satellite System, C. Rosetti IAA 83-265 NAVSTAR, F.X. Kane
- C. Augoyard

 SECOND ANNUAL AAS MILITARY SPACE SYMPOSIUM
 (June 7-8, 1983, Washington, D.C.)

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No AAS numbers assigned

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The SARUNO Experiment (Summary), L.S. Walter, D. Ludwig,

Transit and Safety, W.F. Blanchard

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VOLUME 55	ADVANCES IN THE ASTRONAUTICAL SCIENCES, GUIDANCE AND CONTROL 1984
VOLUME 48	AAS MICROFICHE SERIES, Supplement to Volume 55, Advances, 1984
	(Annual Rocky Mountain Guidance and Control Conference, February 4-8, 1984, Keystone, Colorado)
*AAS 84-001	Development of the Attitude and Orbit Control Subsystem for the OLYMPUS Satellite, M. Burton
AAS 84-002	EUROSTAR Multimission Platform Attitude and Orbit Control Subsystem, R. Oskian, J.F. Poussin, B. Govin
AAS 84-003	Marine Observation Satellite-l System and Control Concepts, Y. Ishizawa, M. Kusanagi, T. Shimamura, G. Shirako, E. Nakagawa
AAS 84-004	Attitude Control of the Infrared Space Observatory and its Predecessors, R.J. Hamann
AAS 84-005	Attitude Determination and Control of the Hipparcos Satellite, D.P. Vilain, R.S. Harris
AAS 84-006	PLANET-A Attitude and Orbit Control Subsystem, K. Ninomiya, K. Uesugi, H. Hara, H. Yamamoto, N. Muranaka, A. Katoh
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AAS 84-011	Direct Quaternion Determination from BARS Measurements, S.A. Skaron
AAS 84-012	Digital Standard Star Tracker, J.P. McQuerry, Jr.
AAS 84-013	Interferometric Angle Sensor, H.B. Albert, L.M. Germann (v48 Micro)
AAS 84-014	Not available

^{*} Unless otherwise indicated all papers appear in Volume 55, Advances in the Astronautical Sciences.

AAS 84-015 Retroreflector Field Tracker, F.E. Wargocki, S.E. Ross (v48 Micro) AAS 84-016 Airborne Laser Lab: Description and Experimental Results. P.S. Shirley (v48 Micro) AAS 84-017 Robotics in Engineering Education, E.J. Bauman, D.W. Erickson AAS 84-018 Artificial Intelligence and Computer Vision for Advanced Manipulator Systems, D.C. Haley, D.G. Morgenthaler, J.C. Sanborn AAS 84-019 Not available AAS 84-020 Strapdown Inertial Guidance Performance in Space, M.J. Haley, H.B. Taylor AAS 84-021 ISTP - NASA's Next International Cooperative Program (summary) R.S. Tatum (v48 Micro) AAS 84-022 to -030 Not assigned AAS 84-031 Not available AAS 84-032 The First Role of the Manned Maneuvering Unit in Space, J.C. Harcinske, R.A. Schein, A.M. Ray, D.J. Cwynar AAS 84-033 Laser Docking System, H.O. Erwin Rendezvous and Docking with Remote Piloted Vehicles, AAS 84-034 J.D. Micheal AAS 84-035 Control of a Flexible Robot for Space Applications, R. Gran AAS 84-036 Docking of a Spacecraft with an Unrestrained Orbiting Structure (Abstract) D.A. Levinson, T.R. Kane AAS 84-037 to -040 Not assigned AAS 84-041 IUS Propulsion, Guidance and Control - An Integrated Design, H. Sokoloff AAS 84-042 Gamma Guidance - Design and Results for Two Flights, R.H. Kuhns, G.C. Coomer Centaur D-lA Guidance/Software System, A.L. Gordan AAS 84-043 AAS 84-044 Navigation & Control Considerations for Space Based Orbital Maneuvering Systems, L. Brandon

Guidance and Control for the Transfer Orbit Stage (TOS),

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- AAS 84-046 Integrated Launch Vehicle and Spacecraft Avionics - A Search for a Feasible Option, J.D. Gilchrist AAS 84-047 to -050 Not assigned AAS 84-051 Inertial Upper Stage/Tracking Data Relay Satellite (IUS/TDRS) Mission Post-Flight Analysis, A.K. Goodfellow, T.R. Anderson, M.T. Oshima AAS 84-052 Inertial Upper Stage Redundant Inertial Measurement Unit Space Performance, R.A. Baum, G.E.S. Morrison, R.C. Peters AAS 84-053 In-Flight Rescue of Stranded TDRS-1 Spacecraft, H. Schmeichel, B.J. Ehlers AAS 84-054 Autotracking from Space: The TDRSS Approach, R.E. Spearing, W.R. Harper Not available AAS 84-055 AAS 84-056 Cosmic Rays, Single Event Upsets and Things that Go Bump in the Night, S.S. Cunningham AAS 84-057 Not available AAS 84-058 A Protective Method Against RAM Upsets Due to Cosmic Particles, H. Nakano, H. Schmeichel
- W.B. Gevarter (v48 Micro)

 AAS 84-060 Lecture Series: Volume II Robotics An Overview of Artificial Intelligence and Robotics, W.B. Gevarter

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Overview of Artificial Intelligence and Robotics,

AAS 84-061 to -099 Not assigned

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AAS 84-059

VOLUME 60 SCIENCE AND TECHNOLOGY, PERMANENT PRESENCE - MAKING IT WORK, 22nd Goddard Memorial Symposium, 1984

(22nd Goddard Memorial Symposium, March 15-16, 1984, NASA Goddard Space Flight Center, Greenbelt, Maryland)

*AAS 83-519A Dedicated Reusable Space Platforms - A New Economic Tool for Space Research and Applications, D.E. Koelle, W. Kleinau

AAS 84-100 Not Available

AAS 84-101 Permanent Presence - Making It Work - Keynote Address, P.E. Culbertson

AAS 84-102 to -104 Not available

AAS 84-105 Space Station Means Commercial Prospects, P.W. Wood

AAS 84-106 Not available

AAS 84-107 Electrophoresis Operations in Space for Pharmaceutical Processing, D.W. Richman

AAS 84-108 Architecture of Permanent Presence, E.E. Speaker

AAS 84-109 to -111 Not available

AAS 84-112 Space Station Program Operations - Making It Work, G.R. Parker

AAS 84-113 End-to-End Logistics, G.A. Opresko

AAS 84-114 Space Station/Platform Configurations, R.W. McCaffrey

AAS 84-115 to -116 Not available

^{*} This article was not presented at the 1984 Goddard Memorial Symposium, but at the 18th European Space Symposium held in June 1983 in London. Since it could not be included in full in the volume Space: A developing Role for Europe, Volume 56, Science and Technology Series, it is now presented in the current volume. It also appears in full in Volume 46, AAS Microfiche Series.

AAS 84-117 Human Roles in Future Space Systems, H.L. Wolbers AAS 84-118 Not available EVA Operations, T.W. Herrala AAS 84-119 AAS 84-120 to -121 Not available AAS 84-122 A Container Material for Alloy Processing in Near Zero Gravity, A.V. Cooke AAS 84-123 Applications of Spherical Shells, T.G. Wang AAS 84-124 Not available AAS 84-125 Space Station Electrical Power Systems, A.A. Sorensen AAS 84-126 Environmental Control and Life Support for an Evolving Capability Manned Space Station, H.F. Brose AAS 84-127 Space Station/Platform Thermal Control, R.A. Haslett AAS 84-128 Not available

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	(Conference held July 10-14, 1984, University of Colorado, Boulder, Colorado)
AAS 84-150	A Timeline for Martian Pioneers, T.O. Paine
AAS 84-151	A Millennium Project: Mars 2000, H.H. Schmitt
AAS 84-152	Political Acceptability of Mars Exploration: Post-1981 Observations, L. David
AAS 84-153	The Civilian Space Program: A Washington Perspective, R.H. Ware, P.P. Chandler
AAS 84-154	The Mars Base: International Cooperation, N.C. Goldman
AAS 84-155	Russians to Mars?, J.E. Oberg
AAS 84-156	Antarctica: Lessons for a Mars Exploration Program, C.P. McKay
AAS 84-157	Design of a Mars Film Mapper Probe, W.M. Clapp
AAS 84-158	Scientific Objectives for a 1996 Mars Sample Return Mission, D.P. Blanchard, J.L. Gooding, U.S. Clanton
AAS 84-159	A Mars Sample Return Mission Using a Rover, J.P. de Vries, H.N. Norton
AAS 84-160	Space Station - The First Step, H.C. Mandell, Jr.
AAS 84-161	Beyond the Space Station, J. von Puttkamer
AAS 84-162	Lunar Base: A Stepping Stone to Mars, M.B. Duke, W.W. Mendell, B.B. Roberts
AAS 84-163	The PhD Project in Perspective, S.F. Singer
AAS 84-164	Phobos and Deimos as Resource and Exploration Centers, B. O'Leary
AAS 84-165	The Case for Phobos, S.J. Adelman, B. Adelman

- AAS 84-166 Scientific Program for a Mars Base, C.R. Stoker, J.M. Moore, R.L. Grossman, P.J. Boston
- AAS 84-167 Critical Life Science Issues for a Mars Base, P.J. Boston
- AAS 84-168 Martian Meteorology and Dust Storms, J.E. Tillman
- AAS 84-169 Mission Strategy and Spacecraft Design for a Mars Base Program, S. Welch
- AAS 84-170 Concepts for the Early Realization of a Manned Mission to Mars, S.J. Hoffman, J.K. Soldner
- AAS 84-171 Analysis of Delivery Capabilities and Costs to Low Mars Orbits Applying Current Technology Launch/Retro Propulsion Systems, J.R. Stuart, R.E. Coffey
- AAS 84-172 Rapid Delivery of Small Payloads to Mars, T.R. Meyer, C.P. McKay, P.M. McKenna, W.R. Pryor
- AAS 84-173 Transportation Modes for Manned Mars Missions, G.R. Woodcock, T.J. Vinopal
- AAS 84-174 Tethers for Mars Space Operations, P.A. Penzo
- AAS 84-175 Advanced Spacesuit Glove Design, W.M. Clapp
- AAS 84-176 Dirigible Airships for Martian Surface Exploration, W.M. Clapp
- AAS 84-177 Power Requirements for the Conquest of Mars, J.A. Angelo, Jr., D. Buden
- AAS 84-178 The Impact of Martian Propellant Manufacturing on Early Manned Exploration, J.R. French
- AAS 84-179 The H-Atom Resource on Mars, B.C. Clark
- AAS 84-180 The Retrieval, Storage, and Recycling of Water for a Manned Base on Mars, D. Jones, C.F. Webb, M.R. LaPointe, H.M. Hart, A. Larson
- AAS 84-181 Water Supply for a Manned Mars Base, W.M. Clapp
- AAS 84-182 Utilizing the Permafrost on Mars, L. Phillips
- AAS 84-183 Extraction of Water from the Mars Atmosphere: Passive Constriction of Wind Flow, H.M. Hart
- AAS 84-184 Mass-Balance Model for a Controlled Ecological Life Support System, T.R. Caudill

AAS 84-185 A Preliminary Assessment of Martian Natural Resource Potential. B.M. Cordell AAS 84-186 Psychological and Interpersonal Adaptation to Mars Missions, A.A. Harrison, M.M. Connors AAS 84-187 Countermeasures for the Effects of Prolonged Weightlessness, D. Woodard AAS 84-188 Psychological Considerations in Long-Duration Space Missions: An Overview, V.M. Littlefield AAS 84-189 Death in Space, R.M. Beattie, Jr. AAS 84-190 Candidate Rover/Returned Sample Landing Sites for Mars (Abstract), H. Masursky AAS 84-191 Mars Geoscience/Climatology Orbiter: The Next Mars Mission (Abstract), R.T. Clancy AAS 84-192 Water on Mars: Geological and Geochemical Evidence (Abstract), S.W. Squyres AAS 84-193 Biomedical Considerations in Long-Duration Space Flights (Abstract), J.C. Sharp An Orbital Quarantine Facility for Analysis of Returned AAS 84-194 Samples (Abstract), J.R. Bagby AAS 84-195 Economic Analysis of Mars Exploration (Abstract), J. Kirwan AAS 84-196 Who is Going to Pay for It? (Abstract), K.M. Joels AAS 84-197 Comparison of Propulsion Systems for Earth to Mars Transit (Abstract), L. DeBell AAS 84-198 The USAF Getaway Special Centrifuge: A Simulator for Space Station and Planetary Surface Gravity Environments (Abstract), H.S. Rhoads AAS 84-199 Not assigned

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		ν̈́c	(23rd Goddard Memorial Symposium/19th European Space Symposium, March 27-29, 1985, NASA Goddard Space Flight Center, Greenbelt, Maryland, and 31st AAS Annual Conference, October 22-24, 1984, Palo Alto, California)
AAS	84-200		Space Propulsion for the 1990s - Opening Remarks, M.T. Constantine
AAS	84-201		Space Propulsion for the 1990s - Keynote Address, E.W. Roddenberry
AAS	84-202		Space Propulsion for the 1990s - Luncheon Address (Summary), S.I. Weiss
AAS	84-203		Not available
AAS	84-204		A Needed Break with Tradition, E.C. Aldridge, Jr.
AAS	84-205		The Impact of Advanced Technology on Future Space Trans- portation Systems (Abstract), G.D. Walberg
AAS	84-206		Propulsion Options for Earth-to-Orbit Vehicles (Abstract), J.A. Martin
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AAS	84-225		Ariane 5 Solid Propellant Boosters, A. Coutrot
AAS	84-226		Ariane 5 - A New Launcher for Europe, H. LaPorte-Weywada, E. Raillon
AAS	84-227		LOX/LH2 Engine Development Status and Future, H. Hirakoso, K. Hasegawa
AAS	84-228	to	-299 Not Assigned or Not Available

^{*} Papers presented at the Goddard Memorial Symposium are listed in the 1985 portion of the index.

VOLUME 56	ADVANCES IN THE ASTRONAUTICAL SCIENCES, FROM SPACELAB TO SPACE STATION (Fifth DGLR/AAS Symposium), 1985
	(From Spacelab to Space Station, Fifth DGLR/AAS Symposium, October 3-5, 1984, Hamburg, Federal Republic of Germany)
AAS 84-300	Eugen Sänger Memorial Lecture, H.E.W. Hoffmann
AAS 84-301	Laudation for Mr. H. Hoffmann, M. Bignier
AAS 84-302	Spacelab 1 In-Flight Performance, K. Berge
AAS 84-303	Experiment Results from Spacelab-1, K. Knott
AAS 84-304	Not available
AAS 84-305	SPAS-01 Flight Experience, K. Moritz
AAS 84-306 to	-307 Not available
AAS 84-308	Technology Developments from Spacelab to Space Station, W. Wienss
AAS 84-309	Communications for the Space Station, J.L. McLucas
AAS 84-310	Large Power Systems for Space Platform Application, J. Rath
AAS 84-311	Not available
AAS 84-312	Advanced Life Support and Thermal Control Technologies for the Space Station, K. Thörmer, A.I. Skoog, H. Kreeb
AAS 84-313	The NASA Space Station Program Plans, R.F. Freitag
AAS 84-314	Tailoring the Space Station for Mission Operations, R.W. Hager, G.R. Woodcock
AAS 84-315	The ESA Space Station Program Plans, M. Bignier, G. Altmann, G. Peters
AAS 84-316	The Columbus Concept, H. Sax

Space Station User Requirements - A European Viewpoint, B. Feuerbacher

AAS 84-317

AAS 84-318 The Use of the Space Station Complex By the Office of Space Science and Applications (OSSA), F.O. von Bun

AAS 84-319 Remarks on German Space Policy 1985-1995, W. Finke

AAS 84-320 to -328 Not available

AAS 84-329 Policy Makers Forum Discussion on Space Station, Statement by H. Jordan

AAS 84-330 to -331 Not available

AAS 84-332 Policy Makers Forum Discussion on Space Station, Statement by H.R. Marshall, Jr.

AAS 84-333 Not available

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		(Fourth ICANM Conference, December 27-29, 1984, Cheng Kung University, Tainan, Taiwan, Republic of China)
*AAS	84-460	Applied Mathematics and Modeling of Wave Propagation in Bubbly Media, L. Ting
AAS	84~401	Computational Solid Mechanics (Finite Elements & Boundary Elements): Present Status and Future Directions, S. N. Atluri
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AAS	84-404	On Mixed and Displacement Finite Element Models of a Refined Shear Deformation Theory for Laminated Aniso- tropic Plates, J. N. Reddy
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AAS	84-406	Dynamic Responses of Contact Problems with Interface Friction, K. S. Wang, S. K. Lin
AAS	84-407	Joints in Composite Structures, C. E. S. Ueng
AAS	84-408	Development of Computers and Structural Steel Design Code Preparation, F. Nishino, A. Hasegawa
AAS	84-409	A Numerical Analysis of Arbitrary Structural Concrete Selections under Combined Loadings, C-T. T. Hsu. H. Wang

^{*} All papers appear in Volume 63, Science and Technology. AAS numbers have been assigned for identification purposes only.

- AAS 84-410 Nonlinear Behavior of Latticed Domes under a Symmetric Load, A. Kassimali, M. Badiey AAS 84-411 Dynamic Pile-Soil Interaction during Impact Driving, Y. K. Chow AAS 84-412 A Simplified Plate Element with Rectangular Cutouts for Perforated Shear Wall Analysis, C. K. Choi, M. S. Bang AAS 84-413 Matrix Extrapolation in Finite Element Analysis, R. J. Melosh, A. B. Bolkir AAS 84-414 Nonlinear Analysis of Rectangular Glass Plates by Galerkin Method, C. V. G. Vallabhan, F. Y. Ku, J. E. Minor AAS 84-415 Optimization of Structures Based on the Finite Element Method and the Nonlinear Programming Algorithms, C. C. Lin, T. S. Yang AAS 84-416 Soil-Structure Earthquake Response of High Rise Towers Based on Modified Waas's Thin Layered Far Field Element, S. Kato, A. Harikane, O. Matsuoka AAS 84-417 Rectangular Plate-Elastic Halfspace Interaction: An Energy Approach, A. R. Kukreti, A. Issa, M. M. Zaman Structural Analysis of Graving Drydocks by the Finite AAS 84-418 Element Method, A. H. Wu, M. Yachnis, E. W. Brooks Development of a Consistent Boundary Integral Equation AAS 84-419 Method in Two-Dimensional Elasticity, C. H. Liu, M. A. Sutton, Y. J. Chao AAS 84-420 Some Approaches to Substructure Coupling with Damping, R. R. Craig, Jr., R. C. Bachmeyer, T. G. Howsman Natural Frequency of the Structures with Cracked Members, AAS 84-421 J. Y. Young, C. L. Ke, W. C. Chiang, D. R. Chen, D. S. Hsu Modeling and Computational Techniques for Torsional Seismic AAS 84-422 Response in Nominally Symmetric Structures, W-C. Cheng, A. A. Huckelbridge
- Structures, C-Y. Liaw

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- AAS 84-452 Solution of General Cases in Flow through Porous Media
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- AAS 84-456 Finite Element Simulation of Tidal Circulation and Meroplankton Dispersion, D. T. Chan
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- AAS 84-458 The Determination of Dimensionality in Modeling, P. Kirmser, K. K. Hu

- AAS 84-459 A Numerical Solution of Singular Integral Equations of the First Kind, P. K. Chiu The Weak Nonlinear Instability of the MacCormack's Explicit AAS 84-460 Scheme and the Explicit \(\) Scheme, Y. N. Jeng, Y-L. Chou, F.-A. Kuo AAS 84-461 Efficient Iterative Schemes for the Analysis of Large Sparse Matrices, G. Gambolati AAS 84-462 A New Method for Maximizing the Minimum Eigenvalue of Differential Operators with Variable Coefficients Subject to Integral Side Conditions, P. G. Kirmser, K. K. Hu AAS 84-463 A Survey of Payload Integration Methods, R. C. Engels, R. Craig Jr. AAS 84-464 The Weak Nonlinear Instability of the Euler Implicit Method and Boundary Conditions for Nonlinear Hyperbolic Equation, H. M. Hsia, Y. N. Jeng AAS 84-465 The Expansion and the Numerical Evaluation of Duhamel's Integral, T-W. Lin, S-J. Wang AAS 84-466 Boundary Elements for the Solution of Engineering Problems, C. A. Brebbia AAS 84-467 An Application of Boundary Integral Equation Method to Three-Dimensional Tunnel Analysis in a Half-Space, C-S. Yeh, T-H. Huang AAS 84-468 A Boundary Element Method for Three-Dimensional Steady Navier-Stokes Equations, K. Onishi, T. Kuroki, M. Tanaka AAS 84-469 Numerical Analysis of Viscoelasticity Using Boundary Element Method, N. Kaneko, T. Shinokawa, N. Yoshida, M. Kawahara AAS 84-470 Boundary Element Method Applied to MHD Equilibria of Toroidal Plasmas, T. Honma, H. Igarashi, I. Kaji AAS 84-471 A Unified Approach to Structure and Control System Design Iterations, J. L. Junkins, D. S. Bodden, J. D. Turner AAS 84-472 An Eigensystem Realization Algorithm (ERA) for Modal
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 (Seventeenth International Space Safety and Rescue Symposium,
 International Astronautical Federation Congress October 7-13
 - International Astronautical Federation Congress, October 7-13, 1984, Lausanne, Switzerland)
- IAA 84-266 Space Shuttle Ground Processing The Safety Challenge, H.L. Brem, Jr.
- IAA 84-267 Alternative Operational Modes and Cost of Removing Geostationary Satellite Debris, U. Thomas
- IAA 84-268 Not Available
- IAA 84-269 Orbit Lifetime Prediction and Safety Considerations, J. de Lafontaine, R. Mamen
- IAA 84-270 A Thirty-Year Perspective on Manned Space Safety and Rescue: Where We've Been; Where We Are; Where We Are Going, F.X. Kane
- IAA 84-271 to -272 Not Available
- IAA 84-273 Emergency Location and Rescue Communications Using Geostar (Summary), G.K. O'Neill
- IAA 84-274 Not Available
- IAA 84-275 The CCIR Recommended Satellite EPIRB System Operating
 Through Geostationary Satellites at 1.6 GHz, W. Goebel,
 H. Kesenheimer
- IAA 84-276 SERES A Polar Orbiting Satellite System as an Extension of INMARSAT, J. Nauck, K. Plate, B. Bischof
- IAA 84-277 SARSAT Emergency Locator Transmitter Practical Experiences
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- IAA 84-278 Use of Satellites for Search and Rescue in Civil Aeronautics (SAR), J.R. Willi, C. Moreaux
- IAA 84-279 Land Mobile Satellite Communications Via MSAT, A.E. Winter, M. Zuliani, D.J. Sward

- IAA 84-280 UNDRO/CNES Experiments in the Use of an ARGOS Transmitter in Disaster Relief Operations, C. Kerpelman
- IAA 84-281 Demonstration and Evaluation of the COSPAS System at Sea, A. Balashov, R. Chernyaev, Y. Zurabov, L. Pcheliakov
- IAA 84-282 COSPAS-SARSAT System Evaluation in Norway, G. Hovmork

THIRD ANNUAL AAS MILITARY SPACE SYMPOSIUM, PEACE AND SECURITY THROUGH SPACE

(June 21-22, 1984, Washington, D.C.)

Proceedings: No AAS proceedings published

No AAS numbers assigned

AIAA/AAS ASTRODYNAMICS CONFERENCE

(August 20-22, 1984, Bellevue, Washington)

Proceedings: Contact AIAA for information.

No AAS numbers assigned



AAS TECHNICAL PAPERS 1985



VOLUME 57	ADVANCES IN THE ASTRONAUTICAL SCIENCES, GUIDANCE AND CONTROL 1985
VOLUME 50	AAS MICROFICHE SERIES, Supplement to Volume 57, Advances, 1985
	(Annual Rocky Mountain Guidance and Control Conference, February 2-6, 1985, Keystone, Colorado)
*AAS 85-001A	Aerospace Guidance and Control in the University: Anticipated Trends, R.D. Culp
AAS 85-001	The Case for Direct Industrial Support of Graduate Students, B.L. Pierson
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AAS 85-005	Now and Whence at the Universities with Guidance and Control Programs, D.B. DeBra
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AAS 85-011	Math Model of Hysteresis in Piezo-Electric Actuators for Precision Pointing Systems, P.R. Dahl, R. Wilder
AAS 85-012	Development and Testing of a Precision Pointer/Tracker for a Spinning Spacecraft, M. Bachmann, J.H. Decanini, J.G. Zaremba
AAS 85-013	Payload Isolation Using Magnetic Suspension, D.D. Havenhill, K.D. Kral

^{*} Unless otherwise indicated all papers appear in Volume 57, Advances in the Astronautical Sciences.

AAS 85-014 Not available Attitude Disturbance Assessment of a Spinning Payload on AAS 85-015 the DMSP Spacecraft, P.H. Mak, M.M. Tong Design and Performance of a Satellite Laser Communications AAS 85-016 Pointing System, R.B. Deadrick AAS 85-017 to -019 Not assigned AAS 85-020 Integration of Multidiscipline Experiments in Self-Contained Payload G-285, C. McColl, M. Baldwin, B. Burkhardt, P. Gaudiano, T. Keaveny, T. Magee, S. Matousek, J. Pesce, H. Sable, N. Searby, K. Spear, S. Thielke, K. Tobiska, G. Ucker AAS 85-021 Guidance and Control Activities at the U.S. Air Force Academy, H.L. Emrick, P.R. Leuthauser, R.H. Tate, III, R.A. Lucal, K.R. Wernle (v50 Micro) AAS 85-022 Hemispherical Resonator Gyro - A New Precision Rotational Sensor, S.R. Fisher (v50 Micro) AAS 85-023 Advanced Two-Axis Beamsteering Element, L.M. Germann (v50 Micro) AAS 85-024 Gyro Assemblies for Satellite Applications, R. Spahr, R.L. Wasley (v50 Micro) AAS 85-025 Control System Design With Personal Computers, M.L. Butler (v50 Micro) AAS 85-026 Image Stabilization System, S. Dahl, R. Rice AAS 85-027 Autonomous Spacecraft Rendezvous and Docking, J.C. Tietz, B.J. Almand High Reliability Ring Laser Gyro Systems for Boost, Reentry AAS 85-028 and Space Applications, N.C. Belmonte (v50 Micro) AAS 85-029 New Results in Adaptive Control Implementation, R. Kosut, R. Roy, S. Shah (v50 Micro) AAS 85-030 On-Orbit Repair of Solar Maximum Mission Observatory, J.F. Lane AAS 85-031 to -039 Not assigned AAS 85-040 On-Orbit Attitude Control of the Cosmic Background Explorer (COBE), B. Bromberg, J. Croft AAS 85-041 Venus Radar Mapper Attitude Control System, G.W. Francis

AAS 85-042 Attitude Determination and Control for the Combined Release and Radiation Effects Satellite, W. Frazier, J. Gaiser, K. Stewart AAS 85-043 Orbital Maneuvering Vehicle Guidance, Navigation and Control, W.G. Huber, W. Finnell, III AAS 85-044 The Galileo Scan Platform Pointing Control System - A Modern Control Theoretic Viewpoint, G.E. Sevaston, G.A. Macala, G.K. Man AAS 85-045 Single-Step Optimal Control of the RPL Experiment, M.A. Floyd AAS 85-046 Inflight Alignment of Payload Inertial Reference from Shuttle Navigation System, A.J. Treder, R.E. Norris, R. Ruprecht AAS 85-047 to -049 Not assigned AAS 85-050 Acquisition and Track Algorithms for the ASTROS Star Tracker, E. Shalom, J.W. Alexander, R.H. Stanton AAS 85-051 Guiding Performance of a Quadrant Digicon Sensor, R.O. Ginaven, L.L. Acton, R.D. Smith, J.G. McCoy AAS 85-052 Fundamental Limitations of Rotational Motion Sensing for Precision Pointing Applications, G.J. Bukow, H. Musoff AAS 85-053 Not available Modeling, Tuning, and Effectiveness of Partially-Filled AAS 85-054 Ring Nutation Dampers, B.G. King, R.P. Woolley AAS 85-055 A User's Guide to the BASD Solid-State Tracker, J.P. McQuerry, Jr., F.E. Wargocki Living with Things That Go Bump in the Night, S.S. AAS 85-056 Cunningham, J.A. Banasiak, C.S. von Flotow AAS 85-057 to -059 Not assigned The Dynamics of the Solar Maximum Mission Spacecraft AAS 85-060 Capture and Redeployment on STS 41-C, K.J. Grady Degradation Studies of ACS Hardware Returned by the Solar AAS 85-061 Solar Maximum Repair Mission (Abstract) G. Ousley, Jr. Failure Analysis and Performance Evaluation of NASA AAS 85-062 Inertial Reference Unit (DRIRU II) After 50 Months of Orbital Operation, K.N. Green, J.W. Ritter, D. Skinner,

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AAS 85-063	Resolution of DSCS III Flight Problems by RAM Patch, M.K. Fountain, T.J. Muelhaupt, W.A. Stinger
AAS 85-064	AMPTE/CCE Interactive Maneuver Results, J.C. Ray
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AAS 85-066	The ERBS Satellite In-Orbit Attitude Control System Performance, F. Tai, Z. Emsley

AAS 85-067 to -099 Not assigned

VOLUME 61 SCIENCE AND TECHNOLOGY, EUROPE/UNITED STATES SPACE ACTIV-ITIES - With a Space Propulsion Supplement

* (23rd Goddard Memorial Symposium/19th European Space Symposium, March 27-29, 1985, NASA Goddard Space Flight Center, Greenbelt, Maryland, and 31st AAS Annual Conference, October 22-24, 1984, Palo Alto, California)

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AAS 85-101 The Italian Space Program, G. Benedetti

AAS 85-102 The Olympus Satellite, P.J. Conchie

AAS 85-103 Shuttle Environment Database, M. Lauriente, G.W. Sharp

AAS 85-104 Not available

AAS 85-105 HIPPARCOS - The First Satellite Devoted to Global Astrometry, M. Bouffard

AAS 85-106 Italian Trends in Space Technology, A. Teofilatto

AAS 85-107 Europe - U.S. Space Activities - Luncheon Address, R. Gibson

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AAS 85-111 Space Station Planning, R.F. Freitag

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AAS 85-114 Japanese Policy on Participation in the Space Station Program, T. Mori

AAS 85-115 European Mission Models for Manned and Unmanned Space Station Elements, W. Ley

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^{*} Papers presented at the 31st AAS Annual Conference are listed in the 1984 portion of the index.

- AAS 85-117A Space Station Platform, P.J. Conchie
- AAS 85-117B A Horizontal Take-Off and Landing Satellite Launcher or Aerospace Plane (HOTOL), P.J. Conchie
- AAS 85-118 Shuttle Compatible Orbit Transfer Subsystem (SCOTS),
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- AAS 85-119 to -121 Not assigned
- AAS 85-122 to -123 Not available
- AAS 85-124 Tethered Satellite System Present Program and Future Applications, E. Vallerani, F. Bevilacqua, F. Giani
- AAS 85-125 SPAS for In-Orbit Technology Demonstration, W. Kleinau
- AAS 85-126 Not available
- AAS 85-127 Eurostar Platform, G.T. Horritt
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- AAS 85-134 Space Research in the Science and Engineering Council and Links with NASA, J.E. Harries, R. Holdaway
- AAS 85-135 Not available
- AAS 85-136 The Space Industry for Communications and Remote Sensing, P. Masarati, G. Bianchi
- AAS 85-137 Transient Dynamics During the Extension of Flexible Members, V.J. Modi
- AAS 85-138 Not available
- AAS 85-139 Scientific Planetary Missions Using Electrical Propulsion Systems, E. Igenbergs, D. Schobert
- AAS 85-140 to -199 Not assigned
- INTERNATIONAL SPACE POLICY: OPTIONS FOR THE TWENTIETH CENTURY AND BEYOND (May 16-17, 1985, Atlanta, Georgia)
 - Proceedings: No AAS proceedings volume planned
- AAS 85-200 to 299 Not Available

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AAS 85-300	Application of the Integral Variation Method to Satellite Orbit Prediction, D. L. Hitzl, F. Zele (v5l Micro, see also AAS 85-680)
AAS 85-301	The Application of Periodic Orbits to TOPEX Mission Design, D. L. Farless (Part I)
AAS 85-302	Orbit Transfer Error Analysis for Multiple Finite Perigee Burn, Ascent Trajectories, N. J. Adams, R. G. Melton (Part I)
AAS 85-303	ERBS Orbit Ascent Utilizing Continuous Low Thrust Maneuvers, S. L. Hoge, IH. Oh (Part I)
AAS 85-304	Parametric Design and Preliminary Mission Analysis of a Proposed Hybrid OTV with TOS/AMS (TM) Solid-Fuel Boosters, and Ring-Cusp Ion Return Engines, L. W. Maddox (Part I)
AAS 85-305	Short-Term Predictions of Spacecraft Re-Entry, L. Anselmo, S. Trumpy (v5l Micro)
AAS 85-306	Mission Candidates for the Second Planetary Observer, J. E. Randolph, D. A. Baker (v51 Micro)
AAS 85-307	Augmentation Program for Outer Planet Exploration: Mission Options and Requirements, S. J. Hoffman, K. Cole, J. K. Soldner, A. L. Friedlander (v51 Micro)

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VOLUME 6 AAS HISTORY SERIES, FIRST STEPS TOWARD SPACE, (IAA History Symposia, Volume 1), Frederick C. Durant, III and George S. James, editors, 1985 (An AAS/IAA monograph, not the product of an AAS conference) AAS 85-700* Some Jet Propulsion Formulas of over Thirty Years Ago, A. Bartocci, Italy (1968) AAS 85-701 Robert Esnault-Pelterie: Space Pioneer, L. Blosset, France (1968)AAS 85-702 Early Italian Rocket and Propellant Research, L. Crocco, Italy (1967) My Theoretical and Experimental Work from 1930 to 1939, which has Accelerated the Development of Multistage AAS 85-703 Rockets, L. Damblanc, France (1967) AAS 85-704 Robert H. Goddard and the Smithsonian Institution, F. C. Durant III, United States (1968) AAS 85-705 Giulio Costanzi: Italian Space Pioneer, A. Eula, Italy (1968)Recollections of Early Biomedical Moon-Mice Investigations, AAS 85-706 C. D. J. Generales, Jr., United States (1968) AAS 85-707 The Foundations of Astrodynamics, S. Herrick, United States (1968)Vladimír Mandl: Founding Writer on Space Law, V. Kopal, AAS 85-708 Czechoslovakia (1968) Developments in Rocket Engineering Achieved by the Gas AAS 85-709 Dynamics Laboratory in Leningrad, I. I. Kulagin, Soviet Union (1968) A Historical Review of Developments in Propellants and AAS 85-710 Materials for Rocket Engines, O. Lutz, German Federal

Republic (1967)

^{*} IAA History papers presented in 1967 and 1968. AAS numbers have been assigned for identification purposes.

- AAS 85-711 On the GALCIT Rocket Research Project, 1936-38, F. J. Malina, United States (1967)
- AAS 85-712 My Contributions to Astronautics, H. Oberth, German Federal Republic (1967)
- AAS 85-713 Early Rocket Developments of the American Rocket Society, G. E. Pendray, United States (1967)
- AAS 85-714 Ludvík Očenášek: Czech Rocket Experimenter, R. Pešek and I. Budil, Czechoslovakia (1968)
- AAS 85-715 Early Experiments with Ramjet Engines in Flight, Y. A. Pobedonostev, Soviet Union (1967)
- AAS 85-716 First Rocket and Aircraft Flight Tests on Ramjets, Y. A. Pobedonostsev, Soviet Union (1968)
- AAS 85-717 On Some Work Done in Rocket Techniques, 1931-38, A. I. Polyarny, Soviet Union (1967)
- AAS 85-718 S. P. Korolyev and the Development of Soviet Rocket Engineering to 1939, B. V. Raushenbakh and Y. V. Biryukov, Soviet Union (1968)
- AAS 85-719 The British Interplanetary Society's Astronautical Studies, 1937-39, H. E. Ross, United Kingdom (1967)
- AAS 85-720 The Development of Regeneratively Cooled Liquid Rocket Engines in Austria and Germany, 1926-42, I. Sänger-Bredt and R. Engel, German Federal Republic (1968)
- AAS 85-721 Development of Winged Rockets in the USSR, 1930-39, Y. S. Shchetinkov, Soviet Union (1967)
- AAS 85-722 Wilhelm Theodor Unge: An Evaluation of His Contributions, Ä. I. Skoog, Sweden (1968)
- AAS 85-723 Some New Data on Early Work of the Soviet Scientist-Pioneers in Rocket Engineering, V. N. Sokolsky, Soviet Union (1968)
- AAS 85-724 Early Developments in Rocket and Spacecraft Performance, Guidance, and Instrumentation, E. A. Steinhoff, United States (1967)
- AAS 85-725 From the History of Early Soviet Liquid-Propellant Rockets,
 M. K. Tikhonravov, Soviet Union (1967)
- AAS 85-726 Annapolis Rocket Motor Development, 1936-38, R. C. Truax, United States (1967)
- AAS 85-727 to -729 Not Assigned

FOURTH ANNUAL SPACE DEVELOPMENT CONFERENCE (L5/AAS Conference, April 25-28, 1985 Washington, D.C.)

Will be a forthcoming volume in the \overline{AAS} Science and Technology Series. AAS 85-730 to -800

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	(Eighteenth International Space Safety and Rescue Symposium, International Astronautical Federation Congress, October 7-12 1985, Stockholm, Sweden)
IAA 85-000	Medico-Legal Implications of Space Stations, J. Dvořák
IAA 85-329	Space Station Safety Design and Operational Considerations, R.E. Breeding, P.G. Tremblay
IAA 85-330	Not Available
IAA 85-331	Space Safety Planning Based on Experience, F.X. Kane
IAA 85-332	Use of the Manned Maneuvering Unit for on-Orbit Rescue Operations, L.J.A. Rogers
IAA 85-333	Fracture Control Facilities in the European Space Agency: Present and Future, G.G. Reibaldi
IAA 85-334	Environmental Implications of the Solar Power Satellite Concept, P.E. Glaser
IAA 85-335	Not Available
IAA 85-336	Earth Satellite Collision Probability in Space Station Era, M. Nagatomo, K. Sato
IAA 85-337	Not Assigned
IAA 85-338	Development and Implementation of the Future Global Maritime Distress and Safety System (FGMDSS), V. Bogdanov
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IAA 85-340	Not Available
IAA 85-341	Progress in Preparing Equipment for the Preoperational Demonstration of the 1.6 GHz Satellite System, W. Goebel, H. Kesenheimer

- IAA 85-342 Test Results of the L-Band Satellite EPIRB System and Future Tests, K. Hoshinoo

 IAA 85-343 Satellite EPIRBs Operational and Environmental Aspects, E. Bliksrud

 IAA 85-344 Proposed New Concepts for an Advanced Search and Rescue Satellite System, W.A. Hembree, R. Wallace, Y. Kaminsky

 IAA 85-345 Mobile Satellites for Safety and Disaster Response, R.E. Anderson

 IAA 85-346 Future Prospects of the COSPAS-SARSAT System Use, R. Chern
- IAA 85-346 Future Prospects of the COSPAS-SARSAT System Use, R. Chernyaev, A. Balashov, Y. Zurabov, L. Pcheliakov, D. Ludwig

FOURTH ANNUAL AAS MILITARY SPACE SYMPOSIUM, PEACE AND SECURITY THROUGH SPACE

(July 10-11, 1985, Washington, D.C.)

Proceedings: No AAS proceedings published

No AAS numbers assigned



AAS TECHNICAL PAPERS 1986 (Partial)



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	(Annual Rocky Mountain Guidance and Control Conference, February 1-5, 1986, Keystone, Colorado)
AAS 86-001	System Level Verification Applying the Space Shuttle Experience to the Space Station, D. W. Gilbert
AAS 86-002	A Quasi-analytical Method for Computing Nonlinear Attitude Maneuver Controls, R. C. Thompson, J. L. Junkins, J. D. Turner
AAS 86-003	The Mast Flight System Dynamic Characteristics and Actuator/Sensor Selection and Location, J. W. Shipley, D. C. Hyland
AAS 86-004	Low-Authority Control Through Passive Damping, R. N. Gehling
AAS 86-005	Line-of-Sight Performance Improvement with Reaction- Wheel Isolation, J. J. Rodden, H. J. Dougherty, L. F. Reschke, M. D. Hasha, L. P. Davis
AAS 86-006	Not Available
AAS 86-007	The Softmounted Intertially Reacting Pointing System (SIRPNT), S. W. Sirlin, R. A. Laskin
AAS 86-008	to -010 Not Assigned
AAS 86-011	High-Speed Cordic Chip for Control of Satellite Servicing Arms, T. E. Richardson (v53 Micro)
AAS 86-012	Navigation, Guidance and Control Curriculum at the U.S. Air Force Academy, M. E. B. France, M. S. Trimboli (v53 Micro)

^{*} Unless otherwise indicated all papers appear in Volume 61, Advances in the Astronautical Sciences. "Micro" refers to the AAS Microfiche Series.

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AAS	86-015	Strobe Interferometer for Dynamic Figure Measurement of Precision Surfaces, S. Dahl, P. Moore, R. Rice (v53 Micro)
AAS	86-016	Line-of-Sight Stabilization with Reactionless Steering Elements, A. Smith (v53 Micro)
AAS	86-017	FEAMIS: A Magnetically Suspended Isolation System for Space-Based Materials Processing, T. S. Allen, D. D. Havenhill, K. D. Kral
AAS	86-018	MHD Angular Rate Sensor, D. R. Laughlin (v53 Micro)
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AAS	86-032	GRO Attitude Control and Determination, W. Jerkovsky, L. Keranen, F. Koehler, F. Tung, B. Ward
AAS	86-033	The Galileo Single-Event Upset Solution and Risk Assessment, G. M. Burdick, E. H. Kopf, D. D. Meyer
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AAS	86-036	A Highly Adaptable Steering/Selection Procedure for Combined CMG/RCS Spacecraft Control, J. A. Paradiso
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AAS	86-041	Use of the Orbital Maneuvering Vehicle (OMV) for Placement and Retrieval of Spacecraft and Platforms, W. C. Snoddy, W. E. Galloway, A. C. Young

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AAS	86-043	Laser Docking System Flight Experiment, H. O. Erwin
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AAS	86-052	Geosat Attitude Stabilization, J. W. Hunt, Jr. (v53 Micro)
AAS	86-053	The First Mission of the Instrument Pointing System (IPS) B. Kösters
AAS	86-054	The Reactivation of Attitude Control on NOAA-8, R. Hogan, T. Tracy, K. Ward
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AAS	86-056	Spacecraft Gerontology and Euthanasia - Operations and Control of the P78-1 Satellite, E. G. Fischer, K. D. Stewart

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	The Human Quest in Space - Keynote Address, W. R. Graham
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AAS 86-103	Perspectives on Materials Processing in Space, K. P. Johnson
AAS 86-104	Status of and Prognosis for Space Remote Sensing, C. P. Williams
AAS 86-105	Evolution of the Space Infrastructure, A. T. Young
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AAS 86-107	The Human Quest in Space - Luncheon Address, J. Garn
AAS 86-108	Visionary Technologies - Introduction, L. A. Harris
AAS 86-109	Technology Projections and Space Systems Opportunities for the 2000-2030 Time Period, R. A. Davis
AAS 86-110	Future Impact of Intelligent Machines on Space Operations, M. P. Georgeff
AAS 86-111	Future Information Technology - The Big Picture, E. W. Martin
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INTERNATIONAL SYMPOSIUM ON COMPOSITE MATERIALS AND STRUCTURING sponsored by Chinese Society of Theoretical and Applied Mechanics, AAS, and European Association for Composite Materials

(June 10-13, 1986, Beijing, China)

No AAS proceedings volume published

No AAS numbers assigned

THE NASA MARS CONFERENCE

(July 21-23, 1986, Washington, D.C.)

To be published as an AAS volume

AAS 86-151 to -199 Assigned

FIFTH ANNUAL AAS MILITARY SPACE SYMPOSIUM, MILITARY IN SPACE: A LOOK INTO THE FUTURE

(July 30-31, 1986, Washington, D.C.)

No proceedings volume published

No AAS numbers assigned

AIAA/AAS ASTRODYNAMICS CONFERENCE

(August 18-20, 1986, Williamsburg, Virginia)

Proceedings: Contact AIAA for information.

No AAS numbers assigned

ADVANCES IN THE ASTRONAUTICAL SCIENCES, TETHERS IN SPACE VOLUME 62

> (International Conference on Tethers in Space; sponsored by NASA/PSN and co-sponsored by AAS/AIAA/AIDAA, September 17-19, 1986, Arlington, Virginia)

Proceedings will be forthcoming.

AAS 86-200 to -249 Assigned 19TH IAA INTERNATIONAL SPACE SAFETY AND RESCUE SYMPOSIUM (October 9-10, 1986, Innsbruck, Austria)

Proceedings: Forthcoming in AAS Science and Technology-Series

IAA 86-415 to -433 Assigned

AEROSPACE: CENTURY XXI, 33RD ANNUAL CONFERENCE (October 26-29, 1986, Boulder, Colorado)

Proceedings will be forthcoming in Advances in the Astronautical Sciences Series and AAS Microfiche Series.

AAS 86-250 to -499 Assigned

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VOLUME 7 I & II	AAS HISTORY SERIES, HISTORY OF ROCKETRY AND ASTRONAUTICS, (IAA History Symposia, Volume 2), R. Cargill Hall, editor, 1986
	(An AAS/IAA monograph, not the product of an AAS conference)
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AAS 86-501	The Swedish Rocket Corps, 1833-1845, Å. I. Skoog (Part I)
AAS 86-502	Baron Vincenz von Augustin and His Raketenbatterien: A History of Austrian Rocketry in the 19th Century, F. H. Winter (Part I)
AAS 86-503	Hungarian Rocketry in the 19th Century, I. G. Nagy (Part I)
AAS 86-504	Nonmilitary Applications of the Rocket between the 17th and 20th Centuries, M. R. Sharpe (Part I)
AAS 86-505	The Use of Congreve-Type War Rockets by the Spanish in the 19th Century: A Chronology, P. M. Sancho (Part I)
AAS 86-506	A Survey of Rocketry and Astronautics in Spain, J. J. Maluquer (Part I)
AAS 86-507	History of the Development of Rocket Technology and Astronautics in Poland, W. P. Geisler (Part I)
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AAS 86-509	On the Works of S. S. Nezhdanovsky in the Field of Flight Based on Reactive Principles, 1880-1895, V. N. Sokolsky (Part I)
AAS 86-510	Guido von Pirquet: Austrian Pioneer of Astronautics, F. Sykora (Part I)

^{*} IAA history papers presented in 1969-1972. AAS numbers have been assigned for identification purposes.

AAS 86-511	Evolution of Spacecraft Attitude Control Concepts Before 1952, R. E. Roberson (Part I)
AAS 86-512	The Ideas of K. E. Tsiolkovsky on Orbital Space Stations, I. A. Kol'chenko, I. V. Strazheva (Part I)
AAS 86-513	F. Gomes Arias' Rocket Vehicle Project, R. Carreras (Part I)
AAS 86-514	On Fundamentally New Sources of Energy for Rockets in the Early Works of the Pioneers of Astronautics, T. M. Mel'kumov (Part I)
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AAS 86-516.	Basic Stages in the Development of the Theory of Ram-Jet Engines (RJE), I. A. Merkulov (Part I)
AAS 86-517	Comparative Analysis of the Designs and Implementation of Vehicles Based on Reactive Propulsion Proposed During the Nineteenth and Beginning of the Twentieth Centuries, V. N. Sokolsky (Part II)
AAS 86-518	The Alleged Contributions of Pedro E. Paulet to Liquid-Propellant Rocketry, F. I. Ordway III (Part II)
AAS 86-519	Main Lines of Scientific and Technical Research at the Jet Propulsion Research Institute (RNII), 1933-1942, Y. S. Shchetinkov (Part II)
AAS 86-520	On the History of the Development of Solid-Propellant Rockets in the Soviet Union, Y. A. Pobedonostsev (Part II)
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CHRONOLOGICAL INDEX THE JOURNAL OF THE ASTRONAUTICAL SCIENCES (JAS) 1979 - 1985

The following pages provide a chronological index of articles that appeared in *The Journal of the Astronautical Sciences*, a publication of the American Astronautical Society. (1979- mid 1986)

The earlier companion volume Numerical/Chronological/Author Index 1954-1978 covers the Journal articles for the period 1954-1978.

It should be noted that The Journal of the Astronautical Sciences Was titled Astronautics in 1954-1955, then The Journal of Astronautics in 1956-57, and finally The Journal of the Astronautical Sciences from 1958 on.

In every case, the Journal volume number and period covered are given in chronological order with a listing of articles, authors, and page numbers.

Most back issues of the *Journal* may be obtained from the publishers for the American Astronautical Society, Univelt, Inc., P.O. Box 28130, San Diego, California 92128.

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- TECHNICAL NOTES: Rectification of the Encke Perturbation Method as Applied to Rigid Body Rotational Motion, L. G. Kraige, D. A. Ulman, pp. 311-320

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- Construction of Large Structures in Space (Future Space Applications Paper), R. L. Kline, pp. 401-418

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- The Use of Unbalanced Precessions as a Trajectory Control Technique for the Pioneer Venus Missions, R. B. Frauenholz, pp. 139-166
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- TECHNICAL NOTES: A Simple Computer Graphics Technique for Spacecraft Attitude Dynamics Simulations, D. A. Levinson, pp. 81-90

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- Advanced Instrumentation for Remote Sensing (Future Space Applications Paper), E. D. Hinkley, pp. 97-112
- Fault Detection, Identification and Reconfiguration for Spacecraft Systems (Tutorial Survey Paper), J.J. Deyst, Jr., J. V. Harrison, E. Gai, K. C. Daly, pp. 113-126
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For the full citation it is necessary to refer back to the <u>Numerical</u>/
<u>Chronological Index</u> which is organized chronologically by year. Users
<u>of this index should not overlook the earlier companion volume</u>. <u>Numerical</u>/
<u>Chronological</u>/Author Index 1954-1978.

Following is an explanatory glossary:

AAS Designation for an American Astronautical Society paper or

article, followed by year and number

AAS His AAS History Series

Adv Advances in the Astronautical Sciences

His AAS History Series

IAA Designation for an International Academy of Astronautics paper or article, followed by year and number

paper or article, followed by year and number

JAS Journal of the Astronautical Sciences

JBIS Journal of the British Interplanetary Society

Mic AAS Microfiche Series

S&T Science and Technology Series

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APPENDICES



APPENDIX I

CONFERENCES SPONSORED OR CO-SPONSORED BY THE AMERICAN ASTRONAUTICAL SOCIETY (1979-1986)

- Second Annual Rocky Mountain Guidance and Control Conference, February 24-28, 1979, Keystone, Colorado (Volume 39, Advances in the Astronautical Sciences*; Volume 31, AAS Microfiche+)
- Space-New Opportunities for International Ventures, Seventeenth Goddard Memorial Symposium, March 28-30, 1979, Washington D.C. (Volume 49, Science and Technology**; Volumes 2 and 3, AAS History**)
- AAS/AIAA Astrodynamics Conference, June 25-27, 1979, Provincetown, Massachusetts (Volume 40-I and II, Advances; Volume 32, AAS Microfiche)
- Remember the Future The Apollo Legacy, July 20-21, 1979, San Francisco, California (Volume 50, Science and Technology)
- Space Shuttle: Dawn of an Era, Twenty-Sixth Annual Meeting, October 29-November 1, 1979, Los Angeles, California (Volume 41-I and II, Advances; Volume 33, AAS Microfiche)
- Third Annual Rocky Mountain Guidance and Control Conference, February 17-21, 1980, Keystone, Colorado (Volume 42, Advances)
- Commercial Operations in Space 1980-2000, Eighteenth Goddard Memorial Symposium, March 27-28, 1980, Washington, D.C. (Volume 51, Science and Technology; Volume 3, AAS History; Volume 34, AAS Microfiche)
- Shuttle/Spacelab The New Transportation System and its Utilization, Third DGLR/AAS Symposium, April 28-30, 1980, Hannover, Germany (Volume 43, Advances)
- * Henceforth abbreviated as Advances
- + AAS Microfiche Series
- ** AAS Science and Technology Series
- ++ AAS History Series

- Space in the 1980s and Beyond, Seventeenth European Space Symposium, June 4-6, 1980, London, England (Volume 53, Science and Technology)
- Careers in Space, July 18-19, San Jose, California (Volume 49, AAS Microfiche)
- AIAA/AAS Astrodynamics Conference, August 11-13, 1980, Danvers, Massachusetts (Proceedings: Contact AIAA for information)
- Space Enhancing Technological Leadership, Twenty-Seventh Annual Meeting, October 20-23, 1986, Boston, Massachusetts (Volume 44, Advances; Volume 35, AAS Microfiche)
- Fourth Annual Rocky Mountain Guidance and Control Conference, January 31-February 4, 1981, Keystone, Colorado (Volume 45, Advances; Volume 36, AAS Microfiche)
- International Space Technical Applications, Nineteenth Goddard Memorial Symposium, March 26-27, 1981, Washington, D.C. (Volume 52, Science and Technology; Volume 5, AAS History)
- The Case for Mars, April 29-May 2, 1981, Boulder, Colorado (Volume 57, Science and Technology)
- Fifth International System Safety Society Conference, July 26-31, 1981, Denver, Colorado (No AAS proceedings published)
- AAS/AIAA Astrodynamics Conference, August 3-5, 1981, North Lake Tahoe, Nevada (Volume 46-I and II, Advances; Volume 37, AAS Microfiche)
- Leadership in Space For Benefits on Earth, Twenty-Eighth Annual Meeting, October 26-29, 1981, San Diego, California (Volume 47, Advances)
- International Symposium on Engineering Sciences and Mechanics, December 29-31, 1981, Tainan, Taiwan (Volume 50-I and II, Advances; Volume 43, AAS Microfiche)
- Fifth Annual Rocky Mountain Guidance and Control Conference, January 30-February 3, 1982, Keystone, Colorado (Volume 48, Advances; Volume 38, AAS Microfiche)
- Spacelab, Space Platforms, and the Future, Twentieth Goddard Memorial Symposium, Fourth DGLR/AAS Symposium, March 17-19, 1982, Greenbelt, Maryland (Volume 49, Advances)
- Space and Society Challenges and Choices, April 14-16, 1982, Austin, Texas (Volume 59, Science and Technology)

- First Annual AAS Military Space Symposium, Military Space Systems and Operations: 1982 and Beyond, June 24-25, 1982, Arlington, Virginia (No proceedings published)
- AIAA/AAS Astrodynamics Conference, August 9-11, 1982, San Diego, California (Proceedings: Contact AIAA for information)
- Developing the Space Frontier, Twenty-Ninth Annual Meeting, October 25-27, 1982, Houston, Texas (Volume 52, Advances)
- Sixth Annual Rocky Mountain Guidance and Control Conference, February 5-9, 1983, Keystone, Colorado (Volume 51, Advances; Volume 44, AAS Microfiche)
- Space Applications at the Crossroads, Twenty-First Goddard Memorial Symposium, March 24-25, 1983, Greenbelt, Maryland (Volume 55, Science and Technology)
- Sixth Princeton/SSI Conference on Space Manufacturing, May 9-12, 1983, Princeton, New Jersey (Volume 53, Advances)
- Space: A Developing Role for Europe, Eighteenth European Space Symposium, June 6-9, 1983, London, England (Volume 56, Science and Technology; Volume 46, AAS Microfiche)
- Second Annual AAS Military Space Symposium, June 7-8, 1983, Washington, D.C. (No proceedings published)
- AAS/AIAA Astrodynamics Conference, August 22-25, 1983, Lake Placid, New York (Volume 54-I and II, Advances; Volume 45, AAS Microfiche)
- Space Operations for the 80s and 90s, Thirtieth Annual Meeting, October 3-5, 1983, Colorado Springs, Colorado (Volume 47, AAS Microfiche)
- Seventh Annual Rocky Mountain Guidance and Control Conference, February 4-8, 1984, Keystone, Colorado (Volume 55, Advances, Volume 48, AAS Microfiche)
- Permanent Presence Making it Work, Twenty-Second Goddard Memorial Symposium, March 15-16, 1984, Greenbelt, Maryland (Volume 60, Science and Technology)
- Third Annual AAS Military Space Symposium, Peace and Security Through Space, June 21-22, 1984, Washington, D.C. (No proceedings published)
- The Case for Mars II, July 10-14, 1984, Boulder, Colorado (Volume 62, Science and Technology)

- AIAA/AAS Astrodynamics Conference, August 20-22, 1984, Bellevue, Washington (Proceedings: Contact AIAA for information)
- From Spacelab to Space Station, Fifth DGLR/AAS Symposium, October 3-5, 1984, Hamburg, Germany (Volume 56, Advances)
- Space Propulsion for the 1990s, Thirty-First Annual Meeting, October 22-24, 1984, Palo Alto, California (Volume 61, Science and Technology)
- Fourth International Conference on Applied Numerical Modeling, December 27-29, 1984, Tainan, Taiwan (Volume 63, Science and Technology)
- Eighth Annual Rocky Mountain Guidance and Control Conference, February 2-6, 1985, Keystone, Colorado (Volume 57, Advances; Volume 50, AAS Microfiche)
- Europe/United States Space Activities, Twenty-Third Goddard Memorial Symposium/Nineteenth European Space Symposium, March 27-29, 1985 (Volume 61, Science and Technology)
- Fourth Annual Space Development Conference, April 25-28, 1985, Washington, D.C.
 (Science and Technology)
- International Space Policy: Options for the Twentieth Century and Beyond,
 May 16-17, 1985, Atlanta, Georgia
 (No AAS proceedings planned)
- Fourth Annual AAS Military Space Symposium, Peace and Security Through Space, July 10-11, 1985, Washington, D.C. (No proceedings published)
- AAS/AIAA Astrodynamics Conference, August 12-15, 1985, Vail, Colorado (Volume 58-I and II, Advances, Volume 51, AAS Microfiche)
- International Symposium: Towards Columbus and Space Station, October 2-4,
 1985, Bonn/Bad Godesberg, Germany
 (Published as a DGLR volume)
- Space Station Beyond IOC: What and Why?, Thirty-Second Annual Meeting, November 6-7, 1985, Los Angeles, California (Volume 59, Advances)
- Space Exploitation and Utilization, First AAS/JRS Symposium, December 15-19, 1985, Honolulu, Hawaii (Volume 60, Advances; Volume 52, AAS Microfiche)
- Ninth Annual Rocky Mountain Guidance and Control Conference, February 1-5, 1986, Keystone, Colorado (Volume 61, Advances; Volume 53, AAS Microfiche)

- The Human Quest in Space, Twenty-Fourth Goddard Memorial Symposium, March 20-21, 1986, Greenbelt, Maryland (Volume 65, Science and Technology)
- International Symposium on Composite Materials and Structuring, June 10-13,
 1986, Beijing, China
 (No proceedings published)
- Fifth Annual AAS Military Space Symposium, Military in Space: A Look into the Future, July 30-31, 1986 (No proceedings published)
- AIAA/AAS Astrondynamics Conference, August 18-20, 1986, Williamsburg, Virginia (Proceedings: Contact AIAA for information)
- International Conference on Tethers in Space, September 17-19, 1986,
 Arlington, Virginia
 (Volume 62, Advances)
- Aerospace: Century XXI, Thirty-Third Annual AAS Meeting, October 26-29, 1986, Boulder, Colorado (Advances and AAS Microfiche)

APPENDIX II

IAA SYMPOSIA FOR WHICH THE AAS PUBLISHES PROCEEDINGS (1979-1986)

30th International Astronautical Federation (IAF) Congress, September 16-22, 1979, Munich, Germany

12th IAA International Space Safety and Rescue Symposium* (Volume 39, AAS Microfiche; Volume 54, Science and Technology)

13th IAA History Symposium+ (Proceedings: Forthcoming in AAS History Series)

31st International Astronautical Federation (IAF) Congress, September 21-28, 1980, Tokyo, Japan

13th IAA International Space Safety and Rescue Symposium (Volume 41-1, AAS Microfiche; Volume 54, Science and Technology)

14th IAA History Symposium (Proceedings: Forthcoming in AAS History Series)

32nd International Astronautical Federation (IAF) Congress, September 6-12, 1981, Rome, Italy

14th IAA International Space Safety and Rescue Symposium (Volume 41-2, AAS Microfiche; Volume 54, Science and Technology)

15th IAA History Symposium (Proceedings: Forthcoming in AAS History Series)

33rd International Astronautical Federation (IAF) Congress, September 27-October 2, 1982, Paris, France

15th IAA International Space Safety and Rescue Symposium (Volume 58, Science and Technology)

16th IAA History Symposium (Proceedings: Forthcoming in AAS History Series)

^{*} All earlier IAA International Space and Safety and Rescue Symposia have been published in the AAS Science and Technology Series and/or the AAS Microfiche Series.

⁺ All earlier IAA History Symposia have been published, or will be published, in the AAS History Series.

34th International Astronautical Federation (IAF) Congress, October 10-15, 1983, Budapest, Hungary

16th IAA International Space Safety and Rescue Symposium (Volume 58, Science and Technology)

17th IAA History Symposium (Proceedings: Forthcoming in AAS History Series)

35th International Astronautical Federation (IAF) Congress, October 7-13, 1984, Lausanne, Switzerland

17th IAA International Space Safety and Rescue Symposium (Volume 64, Science and Technology)

18th IAA History Symposium (Proceedings: Forthcoming in AAS History Series)

36th International Astronautical Federation (IAF) Congress, October 7-12, 1985, Stockholm, Sweden

18th IAA International Space Safety and Rescue Symposium (Volume 64, Science and Technology)

19th IAA History Symposium (Proceedings: Forthcoming in AAS History Series)

37th International Astronautical Federation (IAF) Congress, October 4-11, 1986, Innsbruck, Austria

19th IAA International Space Safety and Rescue Symposium (Proceedings: Forthcoming in AAS Science and Technology Series)

20th IAA History Symposium (Proceedings: Forthcoming in AAS History Series)

APPENDIX III

PUBLICATIONS OF THE AMERICAN ASTRONAUTICAL SOCIETY

Following are the principal publications of the American Astronautical Society:

JOURNAL OF THE ASTRONAUTICAL SCIENCES (1954-)

Published quarterly and distributed by AAS Business Office, 6212-B Old Keene Mill Court, Springfield, VA 22152. Back issues available from Univelt, Inc., P.O. Box 28130, San Diego, CA 92128.

SPACE TIMES (1986-)

Published bi-monthly and distributed by AAS Business Office, 6212-B Old Keene Mill Court, Springfield, VA 22152., Virginia 22152

AAS NEWSLETTER (1962-1985)

Incorporated in Space Times. Back issues available from AAS Business Office, 6212-B Old Keene Mill Court, Springfield, VA 22152.

ASTRONAUTICAL SCIENCES REVIEW (1959-1962)

Incorporated in Space Times. Back issues still available from Univelt, Inc., P.O. Box 28130, San Diego, CA 92128.

ADVANCES IN THE ASTRONAUTICAL SCIENCES (1957-)

Proceedings of major AAS technical meetings. Published and distributed for the American Astronautical Society by Univelt, Inc., P.O. Box 28130, San Diego, CA 92128.

SCIENCE AND TECHNOLOGY SERIES (1964-)

Supplement to Advances in the Astronautical Sciences. Proceedings and monographs, most of them based on AAS technical meetings. Published and distributed for the American Astronautical Society by Univelt, Inc., P.O. Box 28130, San Diego, CA 92128

AAS HISTORY SERIES (1977-)

Supplement to Advances in the Astronautical Sciences. Selected works in the field of aerospace history under the editorship of R. Cargill Hall. Published and distributed for the American Astronautical Society by Univelt, Inc., P.O. Box 28130, San Diego, CA 92128.

AAS MICROFICHE SERIES (1968-)

Supplement to Advances in the Astronautical Sciences. Consists principally of technical papers not included in the hard-copy volume. Published and distributed for the American Astronautical Society by Univelt, Inc., P.O. Box 28130, San Diego, CA 92128.

Subscriptions to the *Journal* and the *Space Times* should be ordered from the AAS Business Office. Back issues of the *Journal* and all books and microfiche should be ordered from Univelt, Inc.

APPENDIX IV

BOOKS/MICROFICHE PUBLISHED FOR THE AMERICAN ASTRONAUTICAL SOCIETY

ADVANCES IN THE ASTRONAUTICAL SCIENCES 1979-1986 Series Editor: H. Jacobs

- Guidance and Control 1979, Volume 39, ed. Robert D. Culp, 1979, 492p
- Astrodynamics 1979, Volume 40-I, eds. Paul A. Penzo, Bernard Kaufman, Louis Friedman, Richard Battin, 1980, 494p
- Astrodynamics 1979, Volume 40-II, eds. Paul A. Penzo, Bernard Kaufman, Louis Friedman, Richard Battin, 1980, 502p
- Space Shuttle: Dawn of an Era, Volume 41-I, eds. William F. Rector, III, Paul A. Penzo, 1980, 452p
- Space Shuttle: Dawn of an Era, Volume 41-II, eds. William F. Rector, III, Paul A. Penzo, 1980, 528p
- Guidance and Control 1980, Volume 42, ed. Louis A. Morine, 1980, 738p
- Shuttle/Spacelab The New Transportation System and its Utilization, eds. Dietrich E. Koelle, George V. Butler, 1981, 342p
- Space Enhancing Technological Leadership, Volume 44, ed. Lawrence P. Greene, 1981, 580p
- Guidance and Control 1981, Volume 45, ed. Edward J. Bauman, 1981, 506p
- Astrodynamics 1981, Volume 46-I, eds. Alan L. Friedlander, Paul J. Cefola, Bernard Kaufman, Walt Williamson, G.T. Tseng, 1982, 552p
- Astrodynamics 1981, Volume 46-II, eds. Alan L. Friedlander, Paul J. Cefola, Bernard Kaufman, Walt Williamson, G.T. Tseng, 1982, 572p
- Leadership in Space-For Benefits on Earth, Volume 47, ed. William F. Rector, III, 1982, 310p
- Guidance and Control 1982, Volume 48, eds. Robert D. Culp, Edward J. Bauman, W.E. Dorroh, Jr., 1982, 558p

- Spacelab, Space Platforms, and the Future, Volume 49, eds. Peter M. Bainum, Dietrich E. Koelle, 1982, 502p
- Proceedings on an International Symposium on Engineering Sciences and Mechanics, Volume 50-I, eds. Han-Min Hsia, Richard W. Longman, You-Li Chou, 1983, 688p
- Proceedings on an International Symposium on Engineering Sciences and Mechanics, Volume 50-II, eds. Han-Min Hsia, Richard W. Longman, You-Li Chou, 1983, 884p
- Guidance and Control 1983, Volume 51, eds. Edward J. Bauman, Zubin W. Emsley, 1983, 494p
- Developing the Space Frontier, Volume 52, eds. Albert Naumann, Grover Alexander, 1983, 436p
- Space Manufacturing 1983, Volume 53, eds. James D. Burke, April S. Whitt, 1983, 496p
- Astrodynamics 1983, Volume 54-I, eds. G.T. Tseng, Paul J. Cefola, Peter M. Bainum, David A. Levinson, 1984, 674p
- Astrodynamics 1983, Volume 54-II, eds. G.T. Tseng, Paul J. Cefola, Peter M. Bainum, David A. Levinson, 1984, 706p
- Guidance and Control 1984, Volume 55, eds. Robert D. Culp, Parker S. Stafford, 1984, 500p
- From Spacelab to Space Station, Volume 56, eds. H. Stoewer, Peter M. Bainum, 1985, 270p
- Guidance and Control 1985, eds. Robert D. Culp, Edward J. Bauman, Charles A. Cullian, 1985, 618p
- Astrodynamics 1985, Volume 58-I, eds. Bernard Kaufman, Joseph J.F. Liu, Robert A. Calico, Felix R. Hoots, 1986, 786p
- Astrodynamics 1985, Volume 58-II, eds. Bernard Kaufman, Joseph J.F. Liu, Robert A. Calico, Felix R. Hoots, 1986, 770p
- Space Station Beyond IOC, Volume 59, ed. M. Jack Friedenthal, 1986, 188p
- Space Exploitation and Utilization, Volume 60, eds. Gayle L. May, Peter M. Bainum, Kenji Ikeda, Tamiya Nomura, Tatsuo Yamanaka, Ryojiro Akiba, 1986, 740p
- Childrace and Control 1986, Volume 61, eds. Robert D. Culp, John C. Durrett, 1986, 460p

SCIENCE AND TECHNOLOGY SERIES 1979-1986

Series Editor: H. Jacobs

- Handbook of Soviet Lunar and Planetary Exploration, Volume 47, Nicholas L. Johnson, 1979, 276p
- Handbook of Soviet Manned Space Flight, Volume 48, Nicholas L. Johnson, 1980, 474p
- Space New Opportunities for International Ventures, Volume 49, ed. William C. Hayes, Jr., 1980, 300p
- Remember the Future The Apollo Legacy, Volume 50, ed. Stan Kent, 1980, 218p
- Commercial Operations in Space 1980-2000, Volume 51, eds. John L. McLucas, Charles Sheffield, 1981, 214p
- International Space Technical Applications, Volume 52, eds. Andrew Adelman, Peter M. Bainum, 1981, 186p
- Space in the 1980s and Beyond, Volume 53, ed. Peter M. Bainum, 1981, 302p
- Space Safety and Rescue 1979-1981, Volume 54, ed. Jeri W. Brown, 1983, 456p
- Space Applications at the Crossroads, Volume 55, eds. John H. McElroy, E. Larry Heacock, 1983, 308p
- Space: A Developing Role for Europe, Volume 56, eds. Len J. Carter, Peter M. Bainum, 1984, 278p
- The Case for Mars, Volume 57, ed. Penelope J. Boston, 1984, 348p
- Space Safety and Rescue 1982-1983, Volume 58, ed. Gloria W. Heath, 1984, 378p
- Space and Society Challenges and Choices, Volume 59, eds. Paul Anaejionu, Nathan C. Goldman, Philip J. Meeks, 1984, 442p
- Permanent Presence Making It Work, Volume 60, ed. Ivan Bekey, 1985, 190p
- Europe/United States Space Activities with a Space Propulsion Supplement, Volume 61, eds. Peter M. Bainum, Friedrich von Bun, 1985, 442p
- The Case for Mars II, Volume 62, ed. Christopher P. McKay, 1985, 730p
- Proceedings of 4th International Conference on Applied Numerical Modeling, Volume 63, eds. Han-Min Hsia, You-Li Chou, Shu-Yi Wang, Sheng-Jii Hsieh, 1986, 800p
- Space Safety and Rescue 1984-1985, Volume 64, ed. Gloria W. Heath, 1986, 400p
- The Human Quest in Space, Volume 65, eds. Gerald L. Burdett, Gerald A. Soffen, Donald Hearth, 1986,

AAS HISTORY SERIES 1979-1986

- Series Editors: (Volumes 1-5) Eugene M. Emme; (Volumes 6-7) R. Cargill Hall
- Twenty-five Years of the American Astronautical Society: Historical Reflections and Projections 1954-1979, Volume 2, ed. Eugene M. Emme, 1980, 248p
- Between Sputnik and the Shuttle: New Perspectives on American Astronautics 1957-1980, Volume 3, ed. Frederick C. Durant, III, 1981, 350p
- The Endless Space Frontier: A History of the House Committee on Science and Astronautics 1959-1978, Volume 4, Ken Hechler, ed. Albert E. Eastman, 1982, 460p
- Science and Fiction and Space Futures: Past and Present, Volume 5, ed. Eugene M. Emme, 1982, 278p
- First Steps Toward Space, Volume 6, eds. Frederick C. Durant, III, George S. James, 1986, 318p
- History of Rocketry and Astronautics, Volume 7-I, ed. R. Cargill Hall, 1986, 250p
- History of Rocketry and Astronautics, Volume 7-II, ed. R. Cargill Hall, 1986, 502p

AAS MICROFICHE SERIES 1979-1986

Series Editor: H. Jacobs

- The Future U.S. Space Program, Volume 30, (Supplement to Volume 38, Advances in the Astronautical Sciences), 1979, 5 papers, 60 abstracts, 6 microfiche
- Guidance and Control 1979, Volume 31, (Supplement to Volume 39, Advances in the Astronautical Sciences), 1979, 3 papers, 2 microfiche
- Astrodynamics 1979, Volume 32, (Supplement to Volume 40, Advances in the Astronautical Sciences), 1979, 27 papers, 13 microfiche
- Space Shuttle: Dawn of an Era, Volume 33, (Supplement to Volume 41,
 Advances in the Astronautical Sciences), 1980, 6 papers, 2 microfiche
- Commercial Operations in Space, Volume 34, (Supplement to Volume 51, Science and Technology), 1981, 2 papers, 1 microfiche
- Space Enhancing Technological Leadership, Volume 35, (Supplement to Volume 44, Advances in the Astronautical Sciences), 1981, 3 papers, 2 microfiche

- Guidance and Control 1981, Volume 36, (Supplement to Volume 45, Advances in the Astronautical Sciences), 1981, 7 papers, 5 microfiche
- Astrodynamics 1981, Volume 37, (Supplement to Volume 46, Advances in the Astronautical Sciences), 1981, 41 papers, 21 microfiche
- Guidance and Control 1982, Volume 38, (Supplement to Volume 48, Advances in the Astronautical Sciences), 1982, 1 paper, 1 microfiche
- Twelfth International Space Safety and Rescue Symposium, Volume 39, (Supplement to Volume 54, Science and Technology), 1982, 11 papers, 5 microfiche
- Ninth, Tenth, and Eleventh International Space Safety and Rescue Symposia, Volume 40, (Supplement to Volume 54, Science and Technology), 1982, 33 papers, 6 microfiche
- Thirteenth and Fourteenth International Space Safety and Rescue Symposia, Volume 41, (Supplement to Volume 54, Science and Technology), 1982, 25 papers, 5 microfiche
- Spacelab, Space Platforms and the Future, Volume 42, (Supplement to Volume 49, Advances in the Astronautical Sciences), 1982, 2 papers, 1 microfiche
- Engineering Sciences and Mechanics, Volume 43, (Supplement to Volume 50, Advances in the Astronautical Sciences), 1983, 2 papers, 2 microfiche
- Guidance and Control 1983, Volume 44, (Supplement to Volume 51, Advances in the Astronautical Sciences), 1983, 2 papers, 2 microfiche
- Astrodynamics 1983, Volume 45, (Supplement to Volume 54, Advances in the Astronautical Sciences), 1984, 33 papers, 13 microfiche
- Space: A Developing Role for Europe, Volume 46, (Supplement to Volume 56, Science and Technology), 1984, 9 papers, 5 microfiche
- Space Operations for the 80s and 90s, Volume 47, 1984, 7 papers, 3 microfiche
- Guidance and Control 1984, Volume 48, (Supplement to Volume 55, Advances in the Astronautical Sciences), 1984, 6 papers, 4 microfiche
- Careers in Space, Volume 49, 1984, 6 papers, 2 microfiche
- Guidance and Control 1985, Volume 50, (Supplement to Volume 57, Advances in the Astronautical Sciences), 1985, 7 papers, 3 microfiche
- Astrodynamics 1985, Volume 51, (Supplement to Volume 58, Advances in the Astronautical Sciences), 1986, 55 papers, 22 microfiche

- Space Exploitation and Utilization, Volume 52, (Supplement to Volume 60, Advances in the Astronautical Sciences), 1986, 4 papers, 2 microfiche
- Guidance and Control 1986, Volume 53, (Supplement to Volume 61, Advances in the Astronautical Sciences), 1986, 7 papers, 3 microfiche

PROCEEDINGS OF AAS ANNUAL MEETINGS

Following a	re proceedings	volumes	for	recent	AAS	Annual	Meetings:
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- 32nd Space Station Beyond IOC, Volume 59, Advances in the Astronautical (1985) Sciences. 1986
- 31st Space Propulsion for the 1990s, Volume 61, Science and Technology (1984) Series, pp355-422, 1985
- 30th Space Operations for the 80s and 90s, Volume 47, AAS Microfiche (1983) Series (7 papers only)
- 29th Developing the Space Frontier, Volume 52, Advances in the (1982) Astronautical Sciences. 1983
- 28th Leadership in Space for Benefits on Earth, Volume 47, Advances (1981) in the Astronautical Sciences. 1982
- 27th Space Enhancing Technological Leadership, Volume 44, Advances (1980) in the Astronautical Sciences, 1981
 Microfiche Supplement: Volume 35, AAS Microfiche Series
- 26th Space Shuttle: Dawn of an Era, Volume 41, Advances in the (1979) Astronautical Sciences, 1980
 Microfiche Supplement: Volume 33, AAS Microfiche Series
- 25th The Future U.S. Space Program, Volume 38, Advances in the
- (1978) Astronautical Sciences, 1979 Microfiche Supplement: Volume 30, AAS Microfiche Series
- 24th Space Shuttle Spacelab Utilization, Volume 37, Advances in [1978] Astronautical Sciences, 1978
- 23rd The Industrialization of Space, Volume 36, Advances in the
- (1977) Astronautical Sciences, 1978 Microfiche Supplement: Volume 28, AAS Microfiche Series
- 22nd The Bicentennial Space Symposium New Themes for Space: Mankind's [1976] Future Needs and Aspirations, Volume 35, Advances in the
- (1976) Future Needs and Aspirations, Volume 35, Advances in the Astronautical Sciences, 1977
- 21st Space Shuttle Missions of the 80s, Volume 32, Advances in the
- (1975) Astronautical Sciences Microfiche Supplement: Volume 25, AAS Microfiche Series

AAS GODDARD MEMORIAL SYMPOSIA [1961-1986]

- First (1961): Interactions of Space Vehicles with an Ionized Atmosphere (International Series of Monographs in Aeronautics and Astronautics, Division IX Symposia, Vol. 18, Pergamon Press, 1965)
- Second (1962): Torques and Attitude Sensing in Satellites (Mathematics and Mechanics, Vol. 7, Academic Press, New York, 1964)
- Third (1965): Scientific Experiments for Manned Orbital Flight (Vol. 4, Advances in the Astronautical Sciences, 1965)
- Fourth (1966): Space Age in Fiscal Year 2001 (Vol. 10, Science and Technology, 1967)
- Fifth (1967): Voyage to the Planets (Vol. 16, Science and Technology, 1968)
- Sixth (1968): Role of the Space Program in the Development of Modern Society (Technology and Social Progress Synergism or Conflict? Vol. 18, Science and Technology, 1969)
- Seventh (1969): Reducing the Cost of Space Transportation (Vol. 21, Science and Technology,
- Eighth (1970): Aerospace Systems Development: Implications for the Law (not published)
- Ninth (1971): International Cooperation in Space Operations (Vol. 27, Science and Technology, 1971)
- Tenth (1972): Transfer of Space Technology to Community and Industry (Vol. 29, Science and Technology, 1972)
- Eleventh (1973): The Second Fifteen Years in Space (Vol. 31, Science and Technology, 1973)
- Twelfth (1974): Progress Report on Skylab and Pioneer Programs (Skylab and Pioneer Report, Vol. 36, Science and Technology, 1975)
- Thirteenth (1975): Future Space Activities (Vol. 40, Science and Technology, 1976)
- Fourteenth (1976): Satellite Communications in the Next Decade (Vol. 44, Science and Technology,
- Fifteenth (1977): Export of Aerospace Technology (Vol. 46, Science and Technology, 1978)
- <u>Sixteenth (1978)</u>: Space Shuttle and Spacelab Utilization (Vol. 37, Advances in the Astronautical Sciences, 1978)
- Seventeenth (1979): Making Space Work (Vol. 49, Science and Technology, 1980; Vols. 2 and 3, AAS History Series, 1980)
- Eighteenth (1980): Commercial Operations in Space 1980-2000 (Vol. 51, Science and Technology; Vol. 3, AAS History Series, 1981)
- Nineteenth (1981): International Space Technical Applications (Vol. 52, Science and Technology, 1981; Vol. 5 AAS History Series)
- Twentieth (1982): Spacelab, Space Platforms and the Future (Vol. 49, Advances in the Astronautical Sciences, 1982)
- Twenty-First (1983): Space Applications at the Crossroads (Vol. 55, Science and Technology, 1983)
- Twenty-Second (1984): Permanent Presence Making It Work (Vol. 60, Science and Technology, 1985)
- Twenty-Third (1985): Europe/United States Space Activities (Vol. 61, Science and Technology, 1985)
- Twenty-Fourth (1986): The Human Quest in Space (Vol. 65, Science and Technology, 1986)

Unless otherwise indicated all AAS Goddard Memorial Symposia proceedings are available from Univelt, Inc., P.O. Box 28130, San Diego, California 92128.

AAS/AIAA ASTRODYNAMICS CONFERENCES

An astrodynamics conference is held each year under the joint sponsorship of the American Astronautical Society and the American Institute of Aeronautics and Astronautics. The two societies alternate in publishing the proceedings of these conferences.

Astrodynamics 1985 appears as Volume 58, Advances in the Astronautical Sciences along with a microfiche supplement, Volume 51, AAS Microfiche Series. The two publications present the complete proceedings of the AAS/AIAA Astrodynamics Conference 1985.

Earlier astrodynamics proceedings available through the American Astronautical Society's publishers are:

Astrodynamics	1983	Volume 54 I & II Advances in the Astronautical Sciences Volume 45, AAS Microfiche Series
Astrodynamics	1981	Volume 46 I & II Advances in the Astronautical Sciences Volume 37, AAS Microfiche Series
Astrodynamics	1979	Volume 40 I & II Advances in the Astronautical Sciences Volume 32, AAS Microfiche Series
Astrodynamics	1977	Volume 27, AAS Microfiche Series
Astrodynamics	1975	Volume 26, AAS Microfiche Series
Astrodynamics	1973	Volume 21, AAS Microfiche Series
Astrodynamics	1971	Volume 20, AAS Microfiche Series
Astrodynamics	1968	Volume 7, AAS Microfiche Series
Astrodynamics	1966	Volume 11, Science and Technology Volume 2, AAS Microfiche Series
Astrodynamics	1965	Volume 9, Science and Technology

All these proceedings are available from Univelt, Inc., P.O. Box 28130, San Diego, California 92128, publishers for the American Astronautical Society.

- Proceedings of the Rocky Mountain Guidance and Control Conferences are available as follows:
- Guidance and Control 1986, Volume 61,
 Advances in the Astronautical Sciences;
 Microfiche Supplement: Volume 53, AAS Microfiche Series
- Guidance and Control 1985, Volume 57, Advances in the Astronautical Sciences; Microfiche Supplement: Volume 50, AAS Microfiche Series
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- Guidance and Control 1980, Volume 42, Advances in the Astronautical Sciences;
- Guidance and Control 1979, Volume 39, Advances in the Astronautical Sciences; Microfiche Supplement: Volume 31, AAS Microfiche Series
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- 32nd Space Station Beyond IOC, Volume 59, Advances in the Astronautical (1985) Sciences, 1986
- 31st Space Propulsion for the 1990s, Volume 61, Science and Technology (1984) Series, pp355-422, 1985
- 30th Space Operations for the 80s and 90s, Volume 47, AAS Microfiche (1983) Series (7 papers only)
- 29th Developing the Space Frontier, Volume 52, Advances in the (1982) Astronautical Sciences, 1983
- 28th Leadership in Space for Benefits on Earth, Volume 47, Advances (1981) in the Astronautical Sciences, 1982
- 27th Space Enhancing Technological Leadership, Volume 44, Advances (1980) in the Astronautical Sciences, 1981
 Microfiche Supplement: Volume 35, AAS Microfiche Series
- 26th Space Shuttle: Dawn of an Era, Volume 41, Advances in the (1979) Astronautical Sciences, 1980
 Microfiche Supplement: Volume 33, AAS Microfiche Series
- 25th The Future U.S. Space Program, Volume 38, Advances in the [1978] Astronautical Sciences. 1979
- (1978) Astronautical Sciences, 1979 Microfiche Supplement: Volume 30, AAS Microfiche Series
- 24th Space Shuttle Spacelab Utilization, Volume 37, Advances in (1978) Astronautical Sciences, 1978
- 23rd The Industrialization of Space, Volume 36, Advances in the
- (1977) Astronautical Sciences, 1978 Microfiche Supplement: Volume 28, AAS Microfiche Series
- 22nd The Bicentennial Space Symposium New Themes for Space: Mankind's (1976) Future Needs and Aspirations, Volume 35, Advances in the
- (1976) Future Needs and Aspirations, Volume 35, Advances in the Astronautical Sciences, 1977
- 21st Space Shuttle Missions of the 80s, Volume 32, Advances in the
- (1975) Astronautical Sciences Microfiche Supplement: Volume 25, AAS Microfiche Series

AAS GODDARD MEMORIAL SYMPOSIA [1961-1986]

- First (1961): Interactions of Space Vehicles with an Ionized Atmosphere (International Series of Monographs in Aeronautics and Astronautics, Division IX Symposia, Vol. 18, Pergamon Press, 1965)
- Second (1962): Torques and Attitude Sensing in Satellites (Mathematics and Mechanics, Vol. 7, Academic Press, New York, 1964)
- Third (1965): Scientific Experiments for Manned Orbital Flight (Vol. 4, Advances in the Astronautical Sciences, 1965)
- Fourth (1966): Space Age in Fiscal Year 2001 (Vol. 10, Science and Technology, 1967)
- Fifth (1967): Voyage to the Planets (Vol. 16, Science and Technology, 1968)
- Sixth (1968): Role of the Space Program in the Development of Modern Society (Technology and Social Progress Synergism or Conflict? Vol. 18, Science and Technology, 1969)
- Seventh (1969): Reducing the Cost of Space Transportation (Vol. 21, Science and Technology, 1969)
- Eighth (1970): Aerospace Systems Development: Implications for the Law (not published)
- Ninth (1971): International Cooperation in Space Operations (Vol. 27, Science and Technology, 1971)
- Tenth (1972): Transfer of Space Technology to Community and Industry (Vol. 29, Science and Technology, 1972)
- Eleventh (1973): The Second Fifteen Years in Space (Vol. 31, Science and Technology, 1973)
- Twelfth (1974): Progress Report on Skylab and Pioneer Programs (Skylab and Pioneer Report, Vol. 36, Science and Technology, 1975)
- Thirteenth (1975): Future Space Activities (Vol. 40, Science and Technology, 1976)
- Fourteenth (1976): Satellite Communications in the Next Decade (Vol. 44, Science and Technology,
- Fifteenth (1977): Export of Aerospace Technology (Vol. 46, Science and Technology, 1978)
- <u>Sixteenth (1978)</u>: Space Shuttle and Spacelab Utilization (Vol. 37, Advances in the Astronautical Sciences, 1978)
- Seventeenth (1979): Making Space Work (Vol. 49, Science and Technology, 1980; Vols. 2 and 3, AAS History Series, 1980)
- Eighteenth (1980): Commercial Operations in Space 1980-2000 (Vol. 51, Science and Technology; Vol. 3, AAS History Series, 1981)
- Nineteenth (1981): International Space Technical Applications (Vol. 52, Science and Technology, 1981; Vol. 5 AAS History Series)
- Twentieth (1982): Spacelab, Space Platforms and the Future (Vol. 49, Advances in the Astronautical Sciences, 1982)
- Twenty-First (1983): Space Applications at the Crossroads (Vol. 55, Science and Technology, 1983)
- Twenty-Second (1984): Permanent Presence Making It Work (Vol. 60, Science and Technology, 1985)
- Twenty-Third (1985): Europe/United States Space Activities (Vol. 61, Science and Technology, 1985)
- Twenty-Fourth (1986): The Human Quest in Space (Vol. 65, Science and Technology, 1986)

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AAS/AIAA ASTRODYNAMICS CONFERENCES

An astrodynamics conference is held each year under the joint sponsorship of the American Astronautical Society and the American Institute of Aeronautics and Astronautics. The two societies alternate in publishing the proceedings of these conferences.

Astrodynamics 1985 appears as Volume 58, Advances in the Astronautical Sciences along with a microfiche supplement, Volume 51, AAS Microfiche Series. The two publications present the complete proceedings of the AAS/AIAA Astrodynamics Conference 1985.

Earlier astrodynamics proceedings available through the American Astronautical Society's publishers are:

Astrodynamics	1983	Volume 54 I & II Advances in the Astronautical Sciences Volume 45, AAS Microfiche Series
Astrodynamics	1981	Volume 46 I & II Advances in the Astronautical Sciences Volume 37, AAS Microfiche Series
Astrodynamics	1979	Volume 40 I & II Advances in the Astronautical Sciences Volume 32, AAS Microfiche Series
Astrodynamics	1977	Volume 27, AAS Microfiche Series
Astrodynamics	1975	Volume 26, AAS Microfiche Series
Astrodynamics	1973	Volume 21, AAS Microfiche Series
Astrodynamics	1971	Volume 20, AAS Microfiche Series
Astrodynamics	1968	Volume 7, AAS Microfiche Series
Astrodynamics	1966	Volume 11, Science and Technology Volume 2, AAS Microfiche Series
Astrodynamics	1965	Volume 9, Science and Technology

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- Proceedings of the Rocky Mountain Guidance and Control Conferences are available as follows:
- Guidance and Control 1986, Volume 61,
 Advances in the Astronautical Sciences;
 Microfiche Supplement: Volume 53, AAS Microfiche Series
- Guidance and Control 1985, Volume 57, Advances in the Astronautical Sciences; Microfiche Supplement: Volume 50, AAS Microfiche Series
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JOINT AAS/DGLR CONFERENCE PROCFEDINGS

FROM SPACELAB TO SPACE STATION, FIFTH DGLR/AAS SYMPOSIUM, VOLUME 56, ADVANCES IN THE ASTRONAU-TICAL SCIENCES, Eds. H. Stoewer, Peter M. Bainum, 1985, 270p, Hard Cover \$50

Presents more Spacelab results including in-flight performance and experience but focuses on (1) the proposed space station architecture and technology especially communications ower systems, tife support, and their control and [2] space station plans, concepts and user requirements. A policy makers forum discussion on space station and a summary of space shuttle payloads and experiments current as of September 1984 are appended. Index. Based on a symposium held October 3-5, 1984 in Hamburg, Germany. life support, and thermal

SPACELAB, SPACE PLATFORMS AND THE FUTURE, Volume 49, Advances in the Astronautical Sciences, Eds. P.M. Bainum, D.E. Koelle, 1982, 502p, Hard Cover \$55; Soft Cover \$45; Microfiche Supple-

Based on proceedings of the Fourth Joint AAS/DGLR and 20th Goddard Memorial Symposia, March 1982, at the NASA Goddard Space Flight Center. These joint meetings provide a forum for Space Shuttle/Spacelab interface. Introduction by Hon. George A. Keyworth on national science and space policy. The volume includes Spacelab mission and space science plans, space platforms and stations, earth-oriented activities, space transportation and the 4th annual history program. Numerous illustrations and index.

SHUTTLE/SPACELAB--THE NEW TRANSPORTATION SYSTEM AND ITS UTILIZATION, VOLUME 43, ADVANCES IN THE ASTRONAUTICAL SCIENCES, EDS. D.E. KOELLE, G.V. BUTLER, 1981, 342p, HARD COVER \$45; SOFT COVER

This volume is based on technical sessions of the Third DGLR/AAS Symposium held in Hannover, West Germany, April 28-30, 1980. The sessions cover Shuttle/Spacelab Utilization Program, Shuttle, Spacelab and related systems (development status), Shuttle/Spacelab missions and systems, instrumentation and experiments, and advanced systems and long-term programs. Cooperative efforts between Europe and the United States are emphasized. Index and numerous illustrations.

SPACE SHUTTLE AND SPACELAB UTILIZATION--Near-Term and Long-Term Benefits for Mankind, Volume 37, ADVANCES IN THE ASTRONAUTICAL SCIENCES, EDS. G.W. MORGENTHALER, M. HOLLSTEIN, 1978; PART 1, 400p, \$40; PART II, 465p, \$45

These volumes, based on the proceedings of the 16th Goddard Memorial Symposium held in Washington, D.C., March 1978, are a sequel to the international meeting held in June 1976 in Bonn, Germany. Both meetings were sponsored jointly by the AAS and the German Astronautical Society (DGLR). Space Shuttle/Spacelab goals and perspectives are presented along with a systems update. Utilization of this program includes a wide gamut of plans and possibilities covering meterials research, space processing experiments, communications and navegation experiments, Landsat missions, earth observation experiments, solar power, solar cells, crystal growth, selection of space personnel, space law, and space industrialization.

UTILIZATION OF SPACE SHUTTLE AND SPACELAB, 1976, 760p, SOFT COVER \$30

Proceedings of an international meeting held in Bonn, West Germany, June 2-4, 1976. Sponsored by the AAS and DGIR in cooperation with CNES [France], DFVLR (Germany), European Space Agency (ESA), NASA, and the National Research Council (Canada). This comprehensive volume consists of 38 technical papers, and some 425 illustrations and tables. Only 12 pages of text are in Germany the rest is in English. Subjects treated include spacelab technology application, spacelab science utilization, advanced manned and unmanned space transportation system projects, a forum on space transportation systems, and industrial innovation by means of space technology.

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SPACE SAFETY AND RESCUE SYMPOSIA

These symposia held annually since 1968 by the Space Safety and Rescue Committee of the International Academy of Astronautics in conjunction with International Astronautical Congresses are now available for purchase through the American Astronautical Society. They are identified as follows:

Proceedings No.	Location of Symposium & Date	Publication
1 2 3	New York City, USA (1968) Mar del Plata, Argentina (1969) Constance, West Germany (1970)	Volume 23, AAS Microfiche Series
4 5 6	Brussels, Belgium (1971) Vienna, Austria (1972) Baku, USSR (1973)	Volume 24, AAS Microfiche Series
7	Amsterdam, Holland (1974)	Volume 37, Science and Technology Series
8	Lisbon, Portugal (1975)	Volume 41, Science and Technology Series
9 10 11	Los Angeles, USA (1976) Prague, Czechoslovakia (1977) Dubrovnik, Yugoslavia (1978)	In full in Volume 40, AAS Microfiche Series Abstracts in Volume 54, Science and Technology Series
12	Munich, 'Germany (1979)	Volume 54, Science and Technology Series and Volume 39, AAS Microfiche Series
13 14	Tokyo, Japan (1980) Rome, Italy (1981)	Volume 54, Science and Technology Series and Volume 41, AAS Microfiche Series
15 16	Paris, France (1982) Budapest, Hungary (1983)	Volume 58, Science and Technology Series
17 18	Lausanne, Switzerland (1984) Stockholm, Sweden (1985)	Volume 64, Science and Technology Series

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